Conforms to US OSHA Hazard Communication 29CFR1910.1200

SAFETY DATA SHEET

Agilent Technologies

LC/MS Pesticide Standard Kit, Part Number 5190-0551

Section 1. Identification

1.1 Product identifier

Product name : LC/MS Pesticide Standard Kit, Part Number 5190-0551

Part no. (chemical kit) : 5190-0551

Part no. :

LC/MS Pesticide Standard #1	5190-0551- 1
LC/MS Pesticide Standard #2	5190-0551- 2
LC/MS Pesticide Standard #3	5190-0551- 3
LC/MS Pesticide Standard #4	5190-0551- 4
LC/MS Pesticide Standard #5	5190-0551- 5
LC/MS Pesticide Standard #6	5190-0551- 6
LC/MS Pesticide Standard #7	5190-0551- 7
LC/MS Pesticide Standard #8	5190-0551- 8

Validation date : 6/21/2018

1.2 Relevant identified uses of the substance or mixture and uses advised against

Material uses : Reagents and Standards for Analytical Chemistry Laboratory Use

LC/MS Pesticide Standard #1	1 x 1 mL
LC/MS Pesticide Standard #2	1 x 1 mL
LC/MS Pesticide Standard #3	1 x 1 mL
LC/MS Pesticide Standard #4	1 x 1 mL
LC/MS Pesticide Standard #5	1 x 1 mL
LC/MS Pesticide Standard #6	1 x 1 mL
LC/MS Pesticide Standard #7	1 x 1 mL
LC/MS Pesticide Standard #8	1 x 1 mL

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer : Agilent Technologies, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status :

LC/MS Pesticide Standard #1	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
LC/MS Pesticide Standard #2	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
LC/MS Pesticide Standard #3	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
LC/MS Pesticide Standard #4	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
LC/MS Pesticide Standard #5	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
LC/MS Pesticide Standard #6	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
LC/MS Pesticide Standard #7	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Section 2. Hazards identification

LC/MS Pesticide Standard #8	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). .

Classification of the substance or mixture

LC/MS Pesticide Standard #1

H225	FLAMMABLE LIQUIDS - Category 2
H302	ACUTE TOXICITY (oral) - Category 4
H312	ACUTE TOXICITY (dermal) - Category 4
H332	ACUTE TOXICITY (inhalation) - Category 4
H319	EYE IRRITATION - Category 2A
H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
H400	AQUATIC HAZARD (ACUTE) - Category 1
H410	AQUATIC HAZARD (LONG-TERM) - Category 1

LC/MS Pesticide Standard #2

H225	FLAMMABLE LIQUIDS - Category 2
H302	ACUTE TOXICITY (oral) - Category 4
H312	ACUTE TOXICITY (dermal) - Category 4
H332	ACUTE TOXICITY (inhalation) - Category 4
H319	EYE IRRITATION - Category 2A
H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
H400	AQUATIC HAZARD (ACUTE) - Category 1
H410	AQUATIC HAZARD (LONG-TERM) - Category 1

LC/MS Pesticide Standard #3

H225	FLAMMABLE LIQUIDS - Category 2
H302	ACUTE TOXICITY (oral) - Category 4
H312	ACUTE TOXICITY (dermal) - Category 4
H332	ACUTE TOXICITY (inhalation) - Category 4
H319	EYE IRRITATION - Category 2A
H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
H400	AQUATIC HAZARD (ACUTE) - Category 1
H410	AQUATIC HAZARD (LONG-TERM) - Category 1

LC/MS Pesticide Standard #4

H225	FLAMMABLE LIQUIDS - Category 2
H302	ACUTE TOXICITY (oral) - Category 4
H312	ACUTE TOXICITY (dermal) - Category 4
H332	ACUTE TOXICITY (inhalation) - Category 4
H319	EYE IRRITATION - Category 2A
H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
H400	AQUATIC HAZARD (ACUTE) - Category 1
H410	AQUATIC HAZARD (LONG-TERM) - Category 1

LC/MS Pesticide Standard #5

H225	FLAMMABLE LIQUIDS - Category 2
H302	ACUTE TOXICITY (oral) - Category 4
H312	ACUTE TOXICITY (dermal) - Category 4
H332	ACUTE TOXICITY (inhalation) - Category 4
H319	EYE IRRITATION - Category 2A
H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
H400	AQUATIC HAZARD (ACUTE) - Category 1
H410	AQUATIC HAZARD (LONG-TERM) - Category 1

Section 2. Hazards identification

LC/MS Pesticide Standard #6

H225	FLAMMABLE LIQUIDS - Category 2
H302	ACUTE TOXICITY (oral) - Category 4
H312	ACUTE TOXICITY (dermal) - Category 4
H332	ACUTE TOXICITY (inhalation) - Category 4
H319	EYE IRRITATION - Category 2A
H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
H400	AQUATIC HAZARD (ACUTE) - Category 1
H410	AQUATIC HAZARD (LONG-TERM) - Category 1

LC/MS Pesticide Standard #7

H225	FLAMMABLE LIQUIDS - Category 2
H302	ACUTE TOXICITY (oral) - Category 4
H312	ACUTE TOXICITY (dermal) - Category 4
H332	ACUTE TOXICITY (inhalation) - Category 4
H319	EYE IRRITATION - Category 2A
H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
H400	AQUATIC HAZARD (ACUTE) - Category 1
H410	AQUATIC HAZARD (LONG-TERM) - Category 1

LC/MS Pesticide Standard #8

H225	FLAMMABLE LIQUIDS - Category 2
H302	ACUTE TOXICITY (oral) - Category 4
H312	ACUTE TOXICITY (dermal) - Category 4
H332	ACUTE TOXICITY (inhalation) - Category 4
H319	EYE IRRITATION - Category 2A
H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
H401	AQUATIC HAZARD (ACUTE) - Category 2
H411	AQUATIC HAZARD (LONG-TERM) - Category 2

.

2.2 GHS label elements

Section 2. Hazards identification

Hazard pictograms :

LC/MS Pesticide Standard #1

LC/MS Pesticide Standard #2

LC/MS Pesticide Standard #3

LC/MS Pesticide Standard #4

LC/MS Pesticide Standard #5

LC/MS Pesticide Standard #6

LC/MS Pesticide Standard #7

LC/MS Pesticide Standard #8

Signal word :

LC/MS Pesticide Standard #1	Danger
LC/MS Pesticide Standard #2	Danger
LC/MS Pesticide Standard #3	Danger
LC/MS Pesticide Standard #4	Danger
LC/MS Pesticide Standard #5	Danger
LC/MS Pesticide Standard #6	Danger
LC/MS Pesticide Standard #7	Danger
LC/MS Pesticide Standard #8	Danger

Hazard statements :

LC/MS Pesticide Standard #1

H225 - Highly flammable liquid and vapor.
H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.
H319 - Causes serious eye irritation.
H373 - May cause damage to organs through prolonged or repeated exposure. (blood system, central nervous system (CNS), kidneys, liver)
H410 - Very toxic to aquatic life with long lasting effects.

LC/MS Pesticide Standard #2

H225 - Highly flammable liquid and vapor.

Section 2. Hazards identification

	H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H319 - Causes serious eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure. (blood system, central nervous system (CNS), kidneys, liver) H410 - Very toxic to aquatic life with long lasting effects.
LC/MS Pesticide Standard #3	H225 - Highly flammable liquid and vapor. H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H319 - Causes serious eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure. (blood system, central nervous system (CNS), kidneys, liver) H410 - Very toxic to aquatic life with long lasting effects.
LC/MS Pesticide Standard #4	H225 - Highly flammable liquid and vapor. H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H319 - Causes serious eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure. (blood system, central nervous system (CNS), kidneys, liver) H410 - Very toxic to aquatic life with long lasting effects.
LC/MS Pesticide Standard #5	H225 - Highly flammable liquid and vapor. H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H319 - Causes serious eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure. (blood system, central nervous system (CNS), kidneys, liver) H410 - Very toxic to aquatic life with long lasting effects.
LC/MS Pesticide Standard #6	H225 - Highly flammable liquid and vapor. H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H319 - Causes serious eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure. (blood system, central nervous system (CNS), kidneys, liver) H410 - Very toxic to aquatic life with long lasting effects.
LC/MS Pesticide Standard #7	H225 - Highly flammable liquid and vapor. H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H319 - Causes serious eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure. (blood system, central nervous system (CNS), kidneys, liver) H410 - Very toxic to aquatic life with long lasting effects.
LC/MS Pesticide Standard #8	H225 - Highly flammable liquid and vapor. H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H319 - Causes serious eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure. (blood system,

Section 2. Hazards identification

central nervous system (CNS), kidneys, liver)
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention :

LC/MS Pesticide Standard #1	P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P233 - Keep container tightly closed. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling.
LC/MS Pesticide Standard #2	P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P233 - Keep container tightly closed. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling.
LC/MS Pesticide Standard #3	P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P233 - Keep container tightly closed. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling.
LC/MS Pesticide Standard #4	P280 - Wear protective gloves. Wear eye or face

Section 2. Hazards identification

	protection. Wear protective clothing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P233 - Keep container tightly closed. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling.
LC/MS Pesticide Standard #5	P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P233 - Keep container tightly closed. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling.
LC/MS Pesticide Standard #6	P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P233 - Keep container tightly closed. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling.
LC/MS Pesticide Standard #7	P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating,

Section 2. Hazards identification

		lighting and all material-handling equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P233 - Keep container tightly closed. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling.
	LC/MS Pesticide Standard #8	P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P233 - Keep container tightly closed. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling.
Response :	LC/MS Pesticide Standard #1	P391 - Collect spillage. P314 - Get medical attention if you feel unwell. P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P302 + P352 + P312 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
	LC/MS Pesticide Standard #2	P391 - Collect spillage. P314 - Get medical attention if you feel unwell. P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

Section 2. Hazards identification

	P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P302 + P352 + P312 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
LC/MS Pesticide Standard #3	P391 - Collect spillage. P314 - Get medical attention if you feel unwell. P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P302 + P352 + P312 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
LC/MS Pesticide Standard #4	P391 - Collect spillage. P314 - Get medical attention if you feel unwell. P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P302 + P352 + P312 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

Section 2. Hazards identification

	contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
LC/MS Pesticide Standard #5	P391 - Collect spillage. P314 - Get medical attention if you feel unwell. P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P302 + P352 + P312 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
LC/MS Pesticide Standard #6	P391 - Collect spillage. P314 - Get medical attention if you feel unwell. P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P302 + P352 + P312 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
LC/MS Pesticide Standard #7	P391 - Collect spillage. P314 - Get medical attention if you feel unwell. P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.

Section 2. Hazards identification

			P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P302 + P352 + P312 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
		LC/MS Pesticide Standard #8	P391 - Collect spillage. P314 - Get medical attention if you feel unwell. P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P302 + P352 + P312 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
Storage	:	LC/MS Pesticide Standard #1	P403 - Store in a well-ventilated place. P235 - Keep cool.
		LC/MS Pesticide Standard #2	P403 - Store in a well-ventilated place. P235 - Keep cool.
		LC/MS Pesticide Standard #3	P403 - Store in a well-ventilated place. P235 - Keep cool.
		LC/MS Pesticide Standard #4	P403 - Store in a well-ventilated place. P235 - Keep cool.
		LC/MS Pesticide Standard #5	P403 - Store in a well-ventilated place. P235 - Keep cool.
		LC/MS Pesticide Standard #6	P403 - Store in a well-ventilated place. P235 - Keep cool.
		LC/MS Pesticide Standard #7	P403 - Store in a well-ventilated place. P235 - Keep cool.
		LC/MS Pesticide Standard #8	P403 - Store in a well-ventilated place. P235 - Keep cool.
Disposal	:		

Section 2. Hazards identification

	LC/MS Pesticide Standard #1	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	LC/MS Pesticide Standard #2	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	LC/MS Pesticide Standard #3	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	LC/MS Pesticide Standard #4	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	LC/MS Pesticide Standard #5	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	LC/MS Pesticide Standard #6	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	LC/MS Pesticide Standard #7	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	LC/MS Pesticide Standard #8	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements :	LC/MS Pesticide Standard #1	None known.
	LC/MS Pesticide Standard #2	None known.
	LC/MS Pesticide Standard #3	None known.
	LC/MS Pesticide Standard #4	None known.
	LC/MS Pesticide Standard #5	None known.
	LC/MS Pesticide Standard #6	None known.
	LC/MS Pesticide Standard #7	None known.
	LC/MS Pesticide Standard #8	None known.

2.3 Other hazards

Hazards not otherwise classified :	LC/MS Pesticide Standard #1	None known.
	LC/MS Pesticide Standard #2	None known.
	LC/MS Pesticide Standard #3	None known.
	LC/MS Pesticide Standard #4	None known.
	LC/MS Pesticide Standard #5	None known.
	LC/MS Pesticide Standard #6	None known.
	LC/MS Pesticide Standard #7	None known.
	LC/MS Pesticide Standard #8	None known.

Section 3. Composition/information on ingredients

Substance/mixture :	LC/MS Pesticide Standard #1	Mixture
	LC/MS Pesticide Standard #2	Mixture
	LC/MS Pesticide Standard #3	Mixture
	LC/MS Pesticide Standard #4	Mixture
	LC/MS Pesticide Standard #5	Mixture
	LC/MS Pesticide Standard #6	Mixture
	LC/MS Pesticide Standard #7	Mixture
	LC/MS Pesticide Standard #8	Mixture

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
LC/MS Pesticide Standard #1		
Acetonitrile	≥90	75-05-8
Methamidophos (ISO)	≤0.1	10265-92-6
Azinphos-ethyl (ISO)	≤0.1	2642-71-9
Fenamiphos (ISO)	≤0.1	22224-92-6
Lenacil	<0.1	2164-08-1
Diflufenican (ISO)	≤0.1	83164-33-4
Disulfoton (ISO)	≤0.1	298-04-4
4H-1,3,5-Thiadiazin-4-one, 2-[(1,1-dimethylethyl)imino]tetrahydro-3-(1-methylethyl)-5-phenyl-	<0.1	69327-76-0
Dimoxystrobin (ISO)	<0.1	149961-52-4
Benzamide, 2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl]-	≤0.1	239110-15-7
4(3H)-Quinazolinone, 6-iodo-2-propoxy-3-propyl-	<0.1	189278-12-4
Butanoic acid, 2,2-dimethyl-, 3-(2,4-dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl ester	<0.1	148477-71-8
Spiroxamine (ISO)	<0.1	118134-30-8
Azinphos-methyl (ISO)	<0.1	86-50-0
Acephate (ISO)	≤0.1	30560-19-1
LC/MS Pesticide Standard #2		
Acetonitrile	≥90	75-05-8
Chlorfenvinphos (ISO)	≤0.1	470-90-6
Chlorpyrifos-methyl	<0.1	5598-13-0
Propiconazole (ISO)	<0.1	60207-90-1
Fenarimol (ISO)	<0.1	60168-88-9
Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propen-1-yl]-2,2-dimethyl-, (2-methyl[1,1'-biphenyl]-3-yl)methyl ester, (1R,3R)-rel-	<0.1	82657-04-3
Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-	<0.1	125225-28-7
S-[(6-chloro-2-oxooxazolo[4,5-b]pyridin-3(2H)-yl)methyl] O,O-dimethyl thiophosphate	<0.1	35575-96-3
Diazinon (ISO)	<0.1	333-41-5
Dichlorvos (ISO)	<0.1	62-73-7
Ethion (ISO)	≤0.1	563-12-2
BROMUCONAZOLE	≤0.1	116255-48-2
Coumaphos (ISO)	≤0.1	56-72-4
Chlorpyrifos (ISO)	≤0.1	2921-88-2
Ethoprophos (ISO)	<0.1	13194-48-4
epoxiconazole (ISO)	<0.1	133855-98-8
LC/MS Pesticide Standard #3		
Acetonitrile	≥90	75-05-8
S-tert-Butylthiomethyl O,O-diethylphosphorodithioate	≤0.1	13071-79-9
Succinic acid, mercapto-, diethyl ester, S-ester with O,O-dimethylphosphorothioate	≤0.1	1634-78-2
Pirimicarb (ISO)	≤0.1	23103-98-2
Pirimiphos-methyl (ISO)	≤0.1	29232-93-7
Quinalphos (ISO)	≤0.1	13593-03-8
Profenofos (ISO)	≤0.1	41198-08-7
Phosphamidon	≤0.1	13171-21-6
Phenthoate (ISO)	≤0.1	2597-03-7
Methidathion (ISO)	≤0.1	950-37-8
Trans-isopropyl-3-[[(ethylamino)methoxyfosfinothioyl]oxy]crotonate	≤0.1	31218-83-4
Dichloro-N-[(dimethylamino)sulphonyl]fluoro-N-(p-tolyl) methanesulphenamide liquid	<0.1	731-27-1
1H-1,2,4-Triazole, 1-[[2-[2-chloro-4-(4-chlorophenoxy)phenyl]-4-methyl-1,3-dioxolan-2-yl]methyl]-	≤0.1	119446-68-3

Section 3. Composition/information on ingredients

quinoxyfen (ISO)	<0.1	124495-18-7
2-Cyclohexen-1-one, 2-[(1E)-1-[[[(2E)-3-chloro-2-propen-1-yl]oxy]imino] propyl]-5-[2-(ethylthio)propyl]-3-hydroxy-	≤0.1	99129-21-2
Malathion (ISO)	<0.1	121-75-5
2-Chloro-2'-ethyl-N-(2-methoxy-1-methylethyl)-6'-methylacetanilide	<0.1	51218-45-2
Oxadiazon (ISO)	≤0.1	19666-30-9
N-(1-Ethylpropyl)-2,6-dinitro-3,4-xylidine	<0.1	40487-42-1
2-Chloro-N-(2,6-dimethylphenyl)-N-(1H-pyrazol-1-ylmethyl)acetamide	<0.1	67129-08-2
Mecarbam (ISO)	≤0.1	2595-54-2
Triazophos (ISO)	≤0.1	24017-47-8
1H-Pyrazole-5-carboxamide, 4-chloro-N-[[4-(1,1-dimethylethyl)phenyl]methyl] -3-ethyl-1-methyl-	≤0.1	119168-77-3
Mevinphos (ISO)	≤0.1	7786-34-7
Phosalone	<0.1	2310-17-0
LC/MS Pesticide Standard #4		
Acetonitrile	≥90	75-05-8
Monocrotophos (ISO)	≤0.1	6923-22-4
fipronil (ISO)	≤0.1	120068-37-3
N-[[(4-chlorophenyl)amino]carbonyl]-2,6-difluorobenzamide	≤0.1	35367-38-5
Carfentrazone-ethyl (ISO)	≤0.1	128639-02-1
Kresoxim-methyl (ISO)	<0.1	143390-89-0
Phoxim (ISO)	<0.1	14816-18-3
famoxadone (ISO)	≤0.1	131807-57-3
Chlorsulfuron (ISO)	<0.1	64902-72-3
Benzamide, N-(((4-(2-chloro-4-(trifluoromethyl)phenoxy)-2-fluorophenyl) amino)carbonyl)-2,6-difluoro-	<0.1	101463-69-8
Linuron (ISO)	<0.1	330-55-2
Metribuzin (ISO)	≤0.1	21087-64-9
Methyl 2-(3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)3-methylureidosulphonyl) benzoate	<0.1	101200-48-0
Metsulfuron-methyl	≤0.1	74223-64-6
Cyazofamid (ISO)	≤0.1	120116-88-3
Flazasulfuron (ISO)	≤0.1	104040-78-0
hexythiazox (ISO)	<0.1	78587-05-0
Hydrazinecarboxamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl] ethylidene]-N-[4-(trifluoromethoxy)phenyl]-	<0.1	139968-49-3
Benzamide, N-[[[3-chloro-4-[1,1,2-trifluoro-2-(trifluoromethoxy)ethoxy]phenyl] amino]carbonyl]-2,6-difluoro-	≤0.1	116714-46-6
3,5-Dithia-2,4-diazahexanamide, N-(4,6-dimethoxy-2-pyrimidinyl)-4-methyl-, 3,3,5,5-tetraoxide	≤0.1	120923-37-7
Aminocarb (ISO)	≤0.1	2032-59-9
3,6-Bis(o-chlorophenyl)-1,2,4,5-tetrazine	<0.1	74115-24-5
Benzamide, N-[[(3,5-dichloro-2,4-difluorophenyl)amino]carbonyl]-2,6-difluoro-	≤0.1	83121-18-0
Propargite (ISO)	<0.1	2312-35-8
LC/MS Pesticide Standard #5		
Acetonitrile	≥90	75-05-8
Aldicarb (ISO)	≤0.1	116-06-3
fenobucarb (ISO)	≤0.1	3766-81-2
Azoxystrobin	<0.1	131860-33-8
Dimethyl N,N'-[thiobis[(methylimino)carbonyloxy]]bis(thioimidoacetate)	≤0.1	59669-26-0
pyridaben (ISO)	≤0.1	96489-71-3
Thiamethoxam (ISO)	≤0.1	153719-23-4
2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine	≤0.1	95737-68-1
Trifloxystrobin (ISO)	<0.1	141517-21-7
Carbendazim (ISO)	<0.1	10605-21-7
Methabenzthiazuron (ISO)	≤0.1	18691-97-9
fenamidone (ISO)	<0.1	161326-34-7

Section 3. Composition/information on ingredients

fenazaquin (ISO)	≤0.1	120928-09-8
Pyraclostrobin	≤0.1	175013-18-0
Cyanamide, N-[3-[(6-chloro-3-pyridinyl)methyl]-2-thiazolidinylidene]-, [N(Z)]-	<0.1	111988-49-9
Diuron (ISO)	<0.1	330-54-1
Methomyl (ISO)	≤0.1	16752-77-5
2-Imidazolidinimine, 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-, (2E)-	≤0.1	138261-41-3
LC/MS Pesticide Standard #6		
Acetonitrile	≥90	75-05-8
Trichlorfon (ISO)	<0.1	52-68-6
Omethoate (ISO)	≤0.1	1113-02-6
Flumioxazin (ISO)	<0.1	103361-09-7
Carbaryl (ISO)	<0.1	63-25-2
Propoxur (ISO)	<0.1	114-26-1
2,3-Dihydro-2,2-dimethyl-7-benzofuryl 2,4-dimethyl-6-oxa-5-oxo-3-thia-2, 4-diazadecanoate	<0.1	65907-30-4
Butanoic acid, 3,3-dimethyl-, 2-oxo-3-(2,4,6-trimethylphenyl)-1-oxaspiro[4.4] non-3-en-4-yl ester	<0.1	283594-90-1
Methanesulfonamide, N-[2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]phenyl]-	≤0.1	122836-35-5
Zoxamide (ISO)	<0.1	156052-68-5
phosmet (ISO)	≤0.1	732-11-6
LC/MS Pesticide Standard #7		
Acetonitrile	≥90	75-05-8
Mercaptodimethur (ISO)	≤0.1	2032-65-7
Avermectin B1	<0.1	71751-41-2
Spinosad (ISO) (reaction mass of spinosyn A and spinosyn D in ratios between 95:5 to 50:50)	≤0.1	168316-95-8
5,5-Dimethyl-perhydro-pyrimidin-2-one α-(4-trifluoromethylstyryl)-α-(4-trifluoromethyl)cinnamylidenehydrazone	≤0.1	67485-29-4
1,2-Benzenedicarboxamide, N2-[1,1-dimethyl-2-(methylsulfonyl)ethyl]-3-iodo-N1-[2-methyl-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl]-	≤0.1	272451-65-7
Ivermectin	<0.1	70288-86-7
Chlorotoluron (ISO)	<0.1	15545-48-9
Mexacarbate (ISO)	≤0.1	315-18-4
1-(3,5-Dichloro-4-(1,1,2,2-tetrafluoroethoxy)phenyl)-3-(2,6-difluorobenzoyl) urea	≤0.1	86479-06-3
Temephos	≤0.1	3383-96-8
(2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8, 9-dimethoxychromeno[3,4-b]furo[2,3-h]chromen-6-one	≤0.1	83-79-4
tebuthiuron (ISO)	≤0.1	34014-18-1
LC/MS Pesticide Standard #8		
Acetonitrile	≥90	75-05-8
4-Cyclopropyl-6-methyl-n-phenyl-2-pyrimidinamin	≤0.056	121552-61-2
Beflubutamid (ISO)	≤0.056	113614-08-7
Lenacil	≤0.056	2164-08-1
Dimethoate (ISO)	≤0.056	60-51-5
[1,2,4]Triazolo[1,5-a]pyrimidine-2-sulfonamide, N-(2,6-difluorophenyl) -5-methyl-	≤0.056	98967-40-9
2-Pyridinamine, 3-chloro-N-[3-chloro-2,6-dinitro-4-(trifluoromethyl)phenyl]-5-(trifluoromethyl)-	≤0.056	79622-59-6
1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino) carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-	≤0.056	500008-45-7
Carbofuran (ISO)	≤0.056	1563-66-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Section 3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact	:	LC/MS Pesticide Standard #1	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
		LC/MS Pesticide Standard #2	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
		LC/MS Pesticide Standard #3	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
		LC/MS Pesticide Standard #4	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
		LC/MS Pesticide Standard #5	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
		LC/MS Pesticide Standard #6	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
		LC/MS Pesticide Standard #7	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
		LC/MS Pesticide Standard #8	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:	LC/MS Pesticide Standard #1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following

Section 4. First aid measures

	exposure or if feeling unwell. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
LC/MS Pesticide Standard #2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
LC/MS Pesticide Standard #3	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
LC/MS Pesticide Standard #4	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. If unconscious, place

Section 4. First aid measures

	in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
LC/MS Pesticide Standard #5	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
LC/MS Pesticide Standard #6	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
LC/MS Pesticide Standard #7	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen

Section 4. First aid measures

			tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		LC/MS Pesticide Standard #8	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	:	LC/MS Pesticide Standard #1	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
		LC/MS Pesticide Standard #2	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
		LC/MS Pesticide Standard #3	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
		LC/MS Pesticide Standard #4	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
		LC/MS Pesticide Standard #5	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before

Section 4. First aid measures

			removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
		LC/MS Pesticide Standard #6	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
		LC/MS Pesticide Standard #7	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
		LC/MS Pesticide Standard #8	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	LC/MS Pesticide Standard #1	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
		LC/MS Pesticide Standard #2	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open

Section 4. First aid measures

	airway. Loosen tight clothing such as a collar, tie, belt or waistband.
LC/MS Pesticide Standard #3	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
LC/MS Pesticide Standard #4	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
LC/MS Pesticide Standard #5	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
LC/MS Pesticide Standard #6	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit

Section 4. First aid measures

		does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	LC/MS Pesticide Standard #7	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	LC/MS Pesticide Standard #8	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	:	LC/MS Pesticide Standard #1	Causes serious eye irritation.
		LC/MS Pesticide Standard #2	Causes serious eye irritation.
		LC/MS Pesticide Standard #3	Causes serious eye irritation.
		LC/MS Pesticide Standard #4	Causes serious eye irritation.
		LC/MS Pesticide Standard #5	Causes serious eye irritation.
		LC/MS Pesticide Standard #6	Causes serious eye irritation.
		LC/MS Pesticide Standard #7	Causes serious eye irritation.
		LC/MS Pesticide Standard #8	Causes serious eye irritation.
Inhalation	:	LC/MS Pesticide Standard #1	Harmful if inhaled.
		LC/MS Pesticide Standard #2	Harmful if inhaled.
		LC/MS Pesticide Standard #3	Harmful if inhaled.
		LC/MS Pesticide Standard #4	Harmful if inhaled.
		LC/MS Pesticide Standard #5	Harmful if inhaled.
		LC/MS Pesticide Standard #6	Harmful if inhaled.
		LC/MS Pesticide Standard #7	Harmful if inhaled.

Section 4. First aid measures

		LC/MS Pesticide Standard #8	Harmful if inhaled.
Skin contact	:	LC/MS Pesticide Standard #1	Harmful in contact with skin.
		LC/MS Pesticide Standard #2	Harmful in contact with skin.
		LC/MS Pesticide Standard #3	Harmful in contact with skin.
		LC/MS Pesticide Standard #4	Harmful in contact with skin.
		LC/MS Pesticide Standard #5	Harmful in contact with skin.
		LC/MS Pesticide Standard #6	Harmful in contact with skin.
		LC/MS Pesticide Standard #7	Harmful in contact with skin.
		LC/MS Pesticide Standard #8	Harmful in contact with skin.
Ingestion	:	LC/MS Pesticide Standard #1	Harmful if swallowed.
		LC/MS Pesticide Standard #2	Harmful if swallowed.
		LC/MS Pesticide Standard #3	Harmful if swallowed.
		LC/MS Pesticide Standard #4	Harmful if swallowed.
		LC/MS Pesticide Standard #5	Harmful if swallowed.
		LC/MS Pesticide Standard #6	Harmful if swallowed.
		LC/MS Pesticide Standard #7	Harmful if swallowed.
		LC/MS Pesticide Standard #8	Harmful if swallowed.

Over-exposure signs/symptoms

Eye contact	:	LC/MS Pesticide Standard #1	Adverse symptoms may include the following: pain or irritation watering redness
		LC/MS Pesticide Standard #2	Adverse symptoms may include the following: pain or irritation watering redness
		LC/MS Pesticide Standard #3	Adverse symptoms may include the following: pain or irritation watering redness
		LC/MS Pesticide Standard #4	Adverse symptoms may include the following: pain or irritation watering redness
		LC/MS Pesticide Standard #5	Adverse symptoms may include the following: pain or irritation watering redness
		LC/MS Pesticide Standard #6	Adverse symptoms may include the following: pain or irritation watering redness
		LC/MS Pesticide Standard #7	Adverse symptoms may include the following: pain or irritation watering redness
		LC/MS Pesticide Standard #8	Adverse symptoms may include the following: pain or irritation watering redness

Section 4. First aid measures

Inhalation	:	LC/MS Pesticide Standard #1	No specific data.
		LC/MS Pesticide Standard #2	No specific data.
		LC/MS Pesticide Standard #3	No specific data.
		LC/MS Pesticide Standard #4	No specific data.
		LC/MS Pesticide Standard #5	No specific data.
		LC/MS Pesticide Standard #6	No specific data.
		LC/MS Pesticide Standard #7	No specific data.
		LC/MS Pesticide Standard #8	No specific data.
Skin contact	:	LC/MS Pesticide Standard #1	No specific data.
		LC/MS Pesticide Standard #2	No specific data.
		LC/MS Pesticide Standard #3	No specific data.
		LC/MS Pesticide Standard #4	No specific data.
		LC/MS Pesticide Standard #5	No specific data.
		LC/MS Pesticide Standard #6	No specific data.
		LC/MS Pesticide Standard #7	No specific data.
		LC/MS Pesticide Standard #8	No specific data.
Ingestion	:	LC/MS Pesticide Standard #1	No specific data.
		LC/MS Pesticide Standard #2	No specific data.
		LC/MS Pesticide Standard #3	No specific data.
		LC/MS Pesticide Standard #4	No specific data.
		LC/MS Pesticide Standard #5	No specific data.
		LC/MS Pesticide Standard #6	No specific data.
		LC/MS Pesticide Standard #7	No specific data.
		LC/MS Pesticide Standard #8	No specific data.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	:	LC/MS Pesticide Standard #1	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		LC/MS Pesticide Standard #2	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		LC/MS Pesticide Standard #3	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		LC/MS Pesticide Standard #4	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		LC/MS Pesticide Standard #5	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		LC/MS Pesticide Standard #6	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		LC/MS Pesticide Standard #7	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		LC/MS Pesticide Standard #8	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical

Section 4. First aid measures

surveillance for 48 hours.

Specific treatments :

LC/MS Pesticide Standard #1	No specific treatment.
LC/MS Pesticide Standard #2	No specific treatment.
LC/MS Pesticide Standard #3	No specific treatment.
LC/MS Pesticide Standard #4	No specific treatment.
LC/MS Pesticide Standard #5	No specific treatment.
LC/MS Pesticide Standard #6	No specific treatment.
LC/MS Pesticide Standard #7	No specific treatment.
LC/MS Pesticide Standard #8	No specific treatment.

Protection of first-aiders :

LC/MS Pesticide Standard #1	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
LC/MS Pesticide Standard #2	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
LC/MS Pesticide Standard #3	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
LC/MS Pesticide Standard #4	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
LC/MS Pesticide Standard #5	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
LC/MS Pesticide Standard #6	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
LC/MS Pesticide Standard #7	No action shall be taken involving any personal risk

Section 4. First aid measures

	or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
LC/MS Pesticide Standard #8	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	: LC/MS Pesticide Standard #1	Use dry chemical, CO_2, water spray (fog) or foam.
	LC/MS Pesticide Standard #2	Use dry chemical, CO_2, water spray (fog) or foam.
	LC/MS Pesticide Standard #3	Use dry chemical, CO_2, water spray (fog) or foam.
	LC/MS Pesticide Standard #4	Use dry chemical, CO_2, water spray (fog) or foam.
	LC/MS Pesticide Standard #5	Use dry chemical, CO_2, water spray (fog) or foam.
	LC/MS Pesticide Standard #6	Use dry chemical, CO_2, water spray (fog) or foam.
	LC/MS Pesticide Standard #7	Use dry chemical, CO_2, water spray (fog) or foam.
	LC/MS Pesticide Standard #8	Use dry chemical, CO_2, water spray (fog) or foam.
Unsuitable extinguishing media	: LC/MS Pesticide Standard #1	Do not use water jet.
	LC/MS Pesticide Standard #2	Do not use water jet.
	LC/MS Pesticide Standard #3	Do not use water jet.
	LC/MS Pesticide Standard #4	Do not use water jet.
	LC/MS Pesticide Standard #5	Do not use water jet.
	LC/MS Pesticide Standard #6	Do not use water jet.
	LC/MS Pesticide Standard #7	Do not use water jet.
	LC/MS Pesticide Standard #8	Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: LC/MS Pesticide Standard #1	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	LC/MS Pesticide Standard #2	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and

Section 5. Fire-fighting measures

	will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
LC/MS Pesticide Standard #3	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
LC/MS Pesticide Standard #4	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
LC/MS Pesticide Standard #5	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
LC/MS Pesticide Standard #6	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or

Section 5. Fire-fighting measures

			drain.
		LC/MS Pesticide Standard #7	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
		LC/MS Pesticide Standard #8	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	:	LC/MS Pesticide Standard #1	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides cyanides
		LC/MS Pesticide Standard #2	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides cyanides
		LC/MS Pesticide Standard #3	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides cyanides
		LC/MS Pesticide Standard #4	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides cyanides
		LC/MS Pesticide Standard #5	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides cyanides
		LC/MS Pesticide Standard #6	Decomposition products may include the following materials: carbon dioxide

Section 5. Fire-fighting measures

		carbon monoxide nitrogen oxides cyanides
	LC/MS Pesticide Standard #7	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides cyanides
	LC/MS Pesticide Standard #8	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides cyanides

5.3 Advice for firefighters

Special protective actions for fire-fighters	:	LC/MS Pesticide Standard #1	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
		LC/MS Pesticide Standard #2	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
		LC/MS Pesticide Standard #3	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
		LC/MS Pesticide Standard #4	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
		LC/MS Pesticide Standard #5	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
		LC/MS Pesticide Standard #6	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
		LC/MS Pesticide Standard #7	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water

Section 5. Fire-fighting measures

		spray to keep fire-exposed containers cool.
	LC/MS Pesticide Standard #8	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters :	LC/MS Pesticide Standard #1	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	LC/MS Pesticide Standard #2	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	LC/MS Pesticide Standard #3	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	LC/MS Pesticide Standard #4	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	LC/MS Pesticide Standard #5	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	LC/MS Pesticide Standard #6	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	LC/MS Pesticide Standard #7	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	LC/MS Pesticide Standard #8	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel :	LC/MS Pesticide Standard #1	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	LC/MS Pesticide Standard #2	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in

Section 6. Accidental release measures

	hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
LC/MS Pesticide Standard #3	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
LC/MS Pesticide Standard #4	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
LC/MS Pesticide Standard #5	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
LC/MS Pesticide Standard #6	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
LC/MS Pesticide Standard #7	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
LC/MS Pesticide Standard #8	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all

Section 6. Accidental release measures

		ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: LC/MS Pesticide Standard #1	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	LC/MS Pesticide Standard #2	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	LC/MS Pesticide Standard #3	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	LC/MS Pesticide Standard #4	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	LC/MS Pesticide Standard #5	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	LC/MS Pesticide Standard #6	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	LC/MS Pesticide Standard #7	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	LC/MS Pesticide Standard #8	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: LC/MS Pesticide Standard #1	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
	LC/MS Pesticide Standard #2	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
	LC/MS Pesticide Standard #3	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in

Section 6. Accidental release measures

	large quantities. Collect spillage.
LC/MS Pesticide Standard #4	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
LC/MS Pesticide Standard #5	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
LC/MS Pesticide Standard #6	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
LC/MS Pesticide Standard #7	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
LC/MS Pesticide Standard #8	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	:	LC/MS Pesticide Standard #1	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		LC/MS Pesticide Standard #2	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		LC/MS Pesticide Standard #3	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of

Section 6. Accidental release measures

	via a licensed waste disposal contractor.
LC/MS Pesticide Standard #4	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
LC/MS Pesticide Standard #5	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
LC/MS Pesticide Standard #6	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
LC/MS Pesticide Standard #7	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
LC/MS Pesticide Standard #8	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures	:	LC/MS Pesticide Standard #1	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
		LC/MS Pesticide Standard #2	Put on appropriate personal protective equipment

Section 7. Handling and storage

	(see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
LC/MS Pesticide Standard #3	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
LC/MS Pesticide Standard #4	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
LC/MS Pesticide Standard #5	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not

Section 7. Handling and storage

	enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
LC/MS Pesticide Standard #6	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
LC/MS Pesticide Standard #7	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
LC/MS Pesticide Standard #8	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open

Section 7. Handling and storage

flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

: LC/MS Pesticide Standard #1

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

LC/MS Pesticide Standard #2

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

LC/MS Pesticide Standard #3

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

LC/MS Pesticide Standard #4

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

LC/MS Pesticide Standard #5

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

LC/MS Pesticide Standard #6

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

LC/MS Pesticide Standard #7

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

LC/MS Pesticide Standard #8

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face

Section 7. Handling and storage

before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

: LC/MS Pesticide Standard #1	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
LC/MS Pesticide Standard #2	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
LC/MS Pesticide Standard #3	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
LC/MS Pesticide Standard #4	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate

Section 7. Handling and storage

	containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
LC/MS Pesticide Standard #5	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
LC/MS Pesticide Standard #6	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
LC/MS Pesticide Standard #7	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
LC/MS Pesticide Standard #8	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 7. Handling and storage

7.3 Specific end use(s)

Recommendations	:	LC/MS Pesticide Standard #1	Industrial applications, Professional applications.
		LC/MS Pesticide Standard #2	Industrial applications, Professional applications.
		LC/MS Pesticide Standard #3	Industrial applications, Professional applications.
		LC/MS Pesticide Standard #4	Industrial applications, Professional applications.
		LC/MS Pesticide Standard #5	Industrial applications, Professional applications.
		LC/MS Pesticide Standard #6	Industrial applications, Professional applications.
		LC/MS Pesticide Standard #7	Industrial applications, Professional applications.
		LC/MS Pesticide Standard #8	Industrial applications, Professional applications.
Industrial sector specific solutions	:	LC/MS Pesticide Standard #1	Not applicable.
		LC/MS Pesticide Standard #2	Not applicable.
		LC/MS Pesticide Standard #3	Not applicable.
		LC/MS Pesticide Standard #4	Not applicable.
		LC/MS Pesticide Standard #5	Not applicable.
		LC/MS Pesticide Standard #6	Not applicable.
		LC/MS Pesticide Standard #7	Not applicable.
		LC/MS Pesticide Standard #8	Not applicable.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
LC/MS Pesticide Standard #1	
Acetonitrile	**ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 20 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours. STEL: 60 ppm 15 minutes. STEL: 105 mg/m³ 15 minutes. **NIOSH REL (United States, 10/2016).** TWA: 20 ppm 10 hours. TWA: 34 mg/m³ 10 hours. **OSHA PEL (United States, 6/2016).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours.
Methamidophos (ISO)	None.
Azinphos-ethyl (ISO)	None.
Fenamiphos (ISO)	**OSHA PEL 1989 (United States, 3/1989).** **Absorbed through skin.** TWA: 0.1 mg/m³ 8 hours. **NIOSH REL (United States, 10/2016).** **Absorbed through skin.** TWA: 0.1 mg/m³ 10 hours. **ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 0.05 mg/m³ 8 hours. Form: Inhalable fraction and vapor
Lenacil	None.
Diflufenican (ISO)	None.
Disulfoton (ISO)	**ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 0.05 mg/m³ 8 hours. Form: Inhalable

Section 8. Exposure controls/personal protection

	fraction and vapor **OSHA PEL 1989 (United States, 3/1989).** **Absorbed through skin.** TWA: 0.1 mg/m³ 8 hours. **NIOSH REL (United States, 10/2016).** **Absorbed through skin.** TWA: 0.1 mg/m³ 10 hours.
4H-1,3,5-Thiadiazin-4-one, 2-[(1,1-dimethylethyl)imino]tetrahydro-3-(1-methylethyl)-5-phenyl-	None.
Dimoxystrobin (ISO)	None.
Benzamide, 2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl]-	None.
4(3H)-Quinazolinone, 6-iodo-2-propoxy-3-propyl-	None.
Butanoic acid, 2,2-dimethyl-, 3-(2,4-dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl ester	None.
Spiroxamine (ISO)	None.
Azinphos-methyl (ISO)	**ACGIH TLV (United States, 3/2017).** **Absorbed through skin. Skin sensitizer.** TWA: 0.2 mg/m³ 8 hours. Form: Inhalable fraction and vapor **OSHA PEL 1989 (United States, 3/1989).** **Absorbed through skin.** TWA: 0.2 mg/m³ 8 hours. **NIOSH REL (United States, 10/2016).** **Absorbed through skin.** TWA: 0.2 mg/m³ 10 hours. **OSHA PEL (United States, 6/2016).** **Absorbed through skin.** TWA: 0.2 mg/m³ 8 hours.
Acephate (ISO)	None.
LC/MS Pesticide Standard #2	
Acetonitrile	**ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 20 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours. STEL: 60 ppm 15 minutes. STEL: 105 mg/m³ 15 minutes. **NIOSH REL (United States, 10/2016).** TWA: 20 ppm 10 hours. TWA: 34 mg/m³ 10 hours. **OSHA PEL (United States, 6/2016).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours.
Chlorfenvinphos (ISO)	None.
Chlorpyrifos-methyl	None.
Propiconazole (ISO)	None.
Fenarimol (ISO)	None.
Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propen-1-yl]-2,2-dimethyl-, (2-methyl[1,1'-biphenyl]-3-yl)methyl ester, (1R,3R)-rel-	None.
Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-	None.
S-[(6-chloro-2-oxooxazolo[4,5-b]pyridin-3(2H)-yl)methyl] O,O-dimethyl thiophosphate	None.
Diazinon (ISO)	**OSHA PEL 1989 (United States, 3/1989).**

Section 8. Exposure controls/personal protection

	Absorbed through skin. TWA: 0.1 mg/m³ 8 hours. **NIOSH REL (United States, 10/2016).** **Absorbed through skin.** TWA: 0.1 mg/m³ 10 hours. **ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 0.01 mg/m³ 8 hours. Form: Inhalable fraction and vapor
Dichlorvos (ISO)	**ACGIH TLV (United States, 3/2017).** **Absorbed through skin. Skin sensitizer.** TWA: 0.1 mg/m³ 8 hours. Form: Inhalable fraction and vapor **OSHA PEL 1989 (United States, 3/1989).** **Absorbed through skin.** TWA: 1 mg/m³ 8 hours. **NIOSH REL (United States, 10/2016).** **Absorbed through skin.** TWA: 1 mg/m³ 10 hours. **OSHA PEL (United States, 6/2016).** **Absorbed through skin.** TWA: 1 mg/m³ 8 hours.
Ethion (ISO)	**OSHA PEL 1989 (United States, 3/1989).** **Absorbed through skin.** TWA: 0.4 mg/m³ 8 hours. **NIOSH REL (United States, 10/2016).** **Absorbed through skin.** TWA: 0.4 mg/m³ 10 hours. **ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 0.05 mg/m³ 8 hours. Form: Inhalable fraction and vapor
BROMUCONAZOLE	None.
Coumaphos (ISO)	**ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 0.05 mg/m³ 8 hours. Form: Inhalable fraction and vapor
Chlorpyrifos (ISO)	**OSHA PEL 1989 (United States, 3/1989).** **Absorbed through skin.** TWA: 0.2 mg/m³ 8 hours. **ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 0.1 mg/m³ 8 hours. Form: Inhalable fraction and vapor **NIOSH REL (United States, 10/2016).** **Absorbed through skin.** TWA: 0.2 mg/m³ 10 hours. STEL: 0.6 mg/m³ 15 minutes.
Ethoprophos (ISO)	None.
epoxiconazole (ISO)	None.
LC/MS Pesticide Standard #3	
Acetonitrile	**ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 20 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 40 ppm 8 hours.

Section 8. Exposure controls/personal protection

	TWA: 70 mg/m³ 8 hours. STEL: 60 ppm 15 minutes. STEL: 105 mg/m³ 15 minutes. **NIOSH REL (United States, 10/2016).** TWA: 20 ppm 10 hours. TWA: 34 mg/m³ 10 hours. **OSHA PEL (United States, 6/2016).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours.
S-tert-Butylthiomethyl O,O-diethylphosphorodithioate	**ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 0.01 mg/m³ 8 hours. Form: Inhalable fraction and vapor
Succinic acid, mercapto-, diethyl ester, S-ester with O,O-dimethylphosphorothioate	None.
Pirimicarb (ISO)	None.
Pirimiphos-methyl (ISO)	None.
Quinalphos (ISO)	None.
Profenofos (ISO)	None.
Phosphamidon	None.
Phenthoate (ISO)	None.
Methidathion (ISO)	None.
Trans-isopropyl-3-[[(ethylamino)methoxyfosfinothioyl]oxy]crotonate	None.
Dichloro-N-[(dimethylamino)sulphonyl]fluoro-N-(p-tolyl) methanesulphenamide liquid	None.
1H-1,2,4-Triazole, 1-[[2-[2-chloro-4-(4-chlorophenoxy)phenyl]-4-methyl-1,3-dioxolan-2-yl]methyl]-	None.
quinoxyfen (ISO)	None.
2-Cyclohexen-1-one, 2-[(1E)-1-[[[(2E)-3-chloro-2-propen-1-yl]oxy]imino] propyl]-5-[2-(ethylthio)propyl]-3-hydroxy-	None.
Malathion (ISO)	**ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 1 mg/m³ 8 hours. Form: Inhalable fraction and vapor **NIOSH REL (United States, 10/2016).** **Absorbed through skin.** TWA: 10 mg/m³ 10 hours. **OSHA PEL 1989 (United States, 3/1989).** **Absorbed through skin.** TWA: 10 mg/m³ 8 hours. Form: Total dust **OSHA PEL (United States, 6/2016).** **Absorbed through skin.** TWA: 15 mg/m³ 8 hours. Form: Total dust
2-Chloro-2'-ethyl-N-(2-methoxy-1-methylethyl)-6'-methylacetanilide	None.
Oxadiazon (ISO)	None.
N-(1-Ethylpropyl)-2,6-dinitro-3,4-xylidine	None.
2-Chloro-N-(2,6-dimethylphenyl)-N-(1H-pyrazol-1-ylmethyl)acetamide	None.
Mecarbam (ISO)	None.
Triazophos (ISO)	None.
1H-Pyrazole-5-carboxamide, 4-chloro-N-[[4-(1,1-dimethylethyl)phenyl] methyl]-3-ethyl-1-methyl-	None.
Mevinphos (ISO)	**ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 0.01 mg/m³ 8 hours. Form: Inhalable fraction and vapor **OSHA PEL 1989 (United States, 3/1989).** **Absorbed through skin.** TWA: 0.01 ppm 8 hours.

Section 8. Exposure controls/personal protection

	TWA: 0.1 mg/m³ 8 hours. STEL: 0.03 ppm 15 minutes. STEL: 0.3 mg/m³ 15 minutes. **NIOSH REL (United States, 10/2016).** **Absorbed through skin.** TWA: 0.01 ppm 10 hours. TWA: 0.1 mg/m³ 10 hours. STEL: 0.03 ppm 15 minutes. STEL: 0.3 mg/m³ 15 minutes. **OSHA PEL (United States, 6/2016).** **Absorbed through skin.** TWA: 0.1 mg/m³ 8 hours.
Phosalone	None.
LC/MS Pesticide Standard #4	
Acetonitrile	**ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 20 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours. STEL: 60 ppm 15 minutes. STEL: 105 mg/m³ 15 minutes. **NIOSH REL (United States, 10/2016).** TWA: 20 ppm 10 hours. TWA: 34 mg/m³ 10 hours. **OSHA PEL (United States, 6/2016).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours.
Monocrotophos (ISO)	**OSHA PEL 1989 (United States, 3/1989).** TWA: 0.25 mg/m³ 8 hours. **NIOSH REL (United States, 10/2016).** TWA: 0.25 mg/m³ 10 hours. **ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 0.05 mg/m³ 8 hours. Form: Inhalable fraction and vapor
fipronil (ISO)	None.
N-[[(4-chlorophenyl)amino]carbonyl]-2,6-difluorobenzamide	None.
Carfentrazone-ethyl (ISO)	None.
Kresoxim-methyl (ISO)	None.
Phoxim (ISO)	None.
famoxadone (ISO)	None.
Chlorsulfuron (ISO)	None.
Benzamide, N-(((4-(2-chloro-4-(trifluoromethyl)phenoxy)-2-fluorophenyl) amino)carbonyl)-2,6-difluoro-	None.
Linuron (ISO)	None.
Metribuzin (ISO)	**ACGIH TLV (United States, 3/2017).** TWA: 5 mg/m³ 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 5 mg/m³ 8 hours. **NIOSH REL (United States, 10/2016).** TWA: 5 mg/m³ 10 hours.
Methyl 2-(3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl) 3-methylureidosulphonyl)benzoate	None.
Metsulfuron-methyl	None.
Cyazofamid (ISO)	None.

Section 8. Exposure controls/personal protection

Flazasulfuron (ISO)	None.
hexythiazox (ISO)	None.
Hydrazinecarboxamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl) phenyl]ethylidene]-N-[4-(trifluoromethoxy)phenyl]-	None.
Benzamide, N-[[[3-chloro-4-[1,1,2-trifluoro-2-(trifluoromethoxy)ethoxy] phenyl]amino]carbonyl]-2,6-difluoro-	None.
3,5-Dithia-2,4-diazahexanamide, N-(4,6-dimethoxy-2-pyrimidinyl) -4-methyl-, 3,3,5,5-tetraoxide	None.
Aminocarb (ISO)	None.
3,6-Bis(o-chlorophenyl)-1,2,4,5-tetrazine	None.
Benzamide, N-[[(3,5-dichloro-2,4-difluorophenyl)amino]carbonyl]-2, 6-difluoro-	None.
Propargite (ISO)	None.
LC/MS Pesticide Standard #5	
Acetonitrile	**ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 20 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours. STEL: 60 ppm 15 minutes. STEL: 105 mg/m³ 15 minutes. **NIOSH REL (United States, 10/2016).** TWA: 20 ppm 10 hours. TWA: 34 mg/m³ 10 hours. **OSHA PEL (United States, 6/2016).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours.
Aldicarb (ISO)	**AIHA WEEL (United States, 10/2011).** **Absorbed through skin.** TWA: 0.0001 ppm 8 hours.
fenobucarb (ISO)	None.
Azoxystrobin	None.
Dimethyl N,N'-[thiobis[(methylimino)carbonyloxy]]bis(thioimidoacetate)	None.
pyridaben (ISO)	None.
Thiamethoxam (ISO)	None.
2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine	None.
Trifloxystrobin (ISO)	None.
Carbendazim (ISO)	None.
Methabenzthiazuron (ISO)	None.
fenamidone (ISO)	None.
fenazaquin (ISO)	None.
Pyraclostrobin	None.
Cyanamide, N-[3-[(6-chloro-3-pyridinyl)methyl]-2-thiazolidinylidene]-, [N (Z)]-	None.
Diuron (ISO)	**ACGIH TLV (United States, 3/2017).** TWA: 10 mg/m³ 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 10 mg/m³ 8 hours. **NIOSH REL (United States, 10/2016).** TWA: 10 mg/m³ 10 hours.
Methomyl (ISO)	**OSHA PEL 1989 (United States, 3/1989).** TWA: 2.5 mg/m³ 8 hours. **NIOSH REL (United States, 10/2016).** TWA: 2.5 mg/m³ 10 hours. **ACGIH TLV (United States, 3/2017).** **Absorbed through skin.**

Section 8. Exposure controls/personal protection

	TWA: 0.2 mg/m³ 8 hours. Form: Inhalable fraction and vapor
2-Imidazolidinimine, 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-, (2E)-	None.
LC/MS Pesticide Standard #6	
Acetonitrile	**ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 20 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours. STEL: 60 ppm 15 minutes. STEL: 105 mg/m³ 15 minutes. **NIOSH REL (United States, 10/2016).** TWA: 20 ppm 10 hours. TWA: 34 mg/m³ 10 hours. **OSHA PEL (United States, 6/2016).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours.
Trichlorfon (ISO)	**ACGIH TLV (United States, 3/2017).** TWA: 1 mg/m³ 8 hours. Form: Inhalable fraction
Omethoate (ISO)	None.
Flumioxazin (ISO)	None.
Carbaryl (ISO)	**OSHA PEL 1989 (United States, 3/1989).** TWA: 5 mg/m³ 8 hours. **NIOSH REL (United States, 10/2016).** TWA: 5 mg/m³ 10 hours. **OSHA PEL (United States, 6/2016).** TWA: 5 mg/m³ 8 hours. **ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 0.5 mg/m³ 8 hours. Form: Inhalable fraction and vapor
Propoxur (ISO)	**OSHA PEL 1989 (United States, 3/1989).** TWA: 0.5 mg/m³ 8 hours. **NIOSH REL (United States, 10/2016).** TWA: 0.5 mg/m³ 10 hours. **ACGIH TLV (United States, 3/2017).** TWA: 0.5 mg/m³ 8 hours. Form: Inhalable fraction and vapor
2,3-Dihydro-2,2-dimethyl-7-benzofuryl 2,4-dimethyl-6-oxa-5-oxo-3-thia-2, 4-diazadecanoate	None.
Butanoic acid, 3,3-dimethyl-, 2-oxo-3-(2,4,6-trimethylphenyl)-1-oxaspiro [4.4]non-3-en-4-yl ester	None.
Methanesulfonamide, N-[2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]phenyl]-	None.
Zoxamide (ISO)	None.
phosmet (ISO)	None.
LC/MS Pesticide Standard #7	
Acetonitrile	**ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 20 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours.

Section 8. Exposure controls/personal protection

	STEL: 60 ppm 15 minutes. STEL: 105 mg/m³ 15 minutes. **NIOSH REL (United States, 10/2016).** TWA: 20 ppm 10 hours. TWA: 34 mg/m³ 10 hours. **OSHA PEL (United States, 6/2016).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours.
Mercaptodimethur (ISO)	None.
Avermectin B1	None.
Spinosad (ISO) (reaction mass of spinosyn A and spinosyn D in ratios between 95:5 to 50:50)	None.
5,5-Dimethyl-perhydro-pyrimidin-2-one α-(4-trifluoromethylstyryl)-α-(4-trifluoromethyl)cinnamylidenehydrazone	None.
1,2-Benzenedicarboxamide, N2-[1,1-dimethyl-2-(methylsulfonyl)ethyl]-3-iodo-N1-[2-methyl-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl]-	None.
Ivermectin	None.
Chlorotoluron (ISO)	None.
Mexacarbate (ISO)	None.
1-(3,5-Dichloro-4-(1,1,2,2-tetrafluoroethoxy)phenyl)-3-(2,6-difluorobenzoyl)urea	None.
Temephos	**ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 1 mg/m³ 8 hours. Form: Inhalable fraction and vapor **OSHA PEL 1989 (United States, 3/1989).** TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 10 ppm 8 hours. Form: Total dust **NIOSH REL (United States, 10/2016).** TWA: 5 mg/m³ 10 hours. Form: Respirable fraction TWA: 10 mg/m³ 10 hours. Form: Total **OSHA PEL (United States, 6/2016).** TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust
(2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo[2,3-h]chromen-6-one	**ACGIH TLV (United States, 3/2017).** TWA: 5 mg/m³ 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 5 mg/m³ 8 hours. **NIOSH REL (United States, 10/2016).** TWA: 5 mg/m³ 10 hours. **OSHA PEL (United States, 6/2016).** TWA: 5 mg/m³ 8 hours.
tebuthiuron (ISO)	None.
LC/MS Pesticide Standard #8	
Acetonitrile	**ACGIH TLV (United States, 3/2017).** **Absorbed through skin.** TWA: 20 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours. STEL: 60 ppm 15 minutes. STEL: 105 mg/m³ 15 minutes. **NIOSH REL (United States, 10/2016).**

Section 8. Exposure controls/personal protection

	TWA: 20 ppm 10 hours. TWA: 34 mg/m³ 10 hours. **OSHA PEL (United States, 6/2016).** TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours.
4-Cyclopropyl-6-methyl-n-phenyl-2-pyrimidinamin	None.
Beflubutamid (ISO)	None.
Lenacil	None.
Dimethoate (ISO)	None.
[1,2,4]Triazolo[1,5-a]pyrimidine-2-sulfonamide, N-(2,6-difluorophenyl) -5-methyl-	None.
2-Pyridinamine, 3-chloro-N-[3-chloro-2,6-dinitro-4-(trifluoromethyl)phenyl] -5-(trifluoromethyl)-	None.
1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-	None.
Carbofuran (ISO)	**OSHA PEL 1989 (United States, 3/1989).** TWA: 0.1 mg/m³ 8 hours. **ACGIH TLV (United States, 3/2017).** TWA: 0.1 mg/m³ 8 hours. Form: Inhalable fraction and vapor **NIOSH REL (United States, 10/2016).** TWA: 0.1 mg/m³ 10 hours.

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Section 8. Exposure controls/personal protection

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	:	LC/MS Pesticide Standard #1	Liquid. [Clear.]
		LC/MS Pesticide Standard #2	Liquid. [Clear.]
		LC/MS Pesticide Standard #3	Liquid. [Clear.]
		LC/MS Pesticide Standard #4	Liquid. [Clear.]
		LC/MS Pesticide Standard #5	Liquid. [Clear.]
		LC/MS Pesticide Standard #6	Liquid. [Clear.]
		LC/MS Pesticide Standard #7	Liquid. [Clear.]
		LC/MS Pesticide Standard #8	Liquid. [Clear.]
Color	:	LC/MS Pesticide Standard #1	Colorless.
		LC/MS Pesticide Standard #2	Colorless.
		LC/MS Pesticide Standard #3	Colorless.
		LC/MS Pesticide Standard #4	Colorless.
		LC/MS Pesticide Standard #5	Colorless.
		LC/MS Pesticide Standard #6	Colorless.
		LC/MS Pesticide Standard #7	Colorless.
		LC/MS Pesticide Standard #8	Colorless.
Odor	:	LC/MS Pesticide Standard #1	Not available.
		LC/MS Pesticide Standard #2	Not available.
		LC/MS Pesticide Standard #3	Not available.
		LC/MS Pesticide Standard #4	Not available.
		LC/MS Pesticide Standard #5	Not available.
		LC/MS Pesticide Standard #6	Not available.
		LC/MS Pesticide Standard #7	Not available.
		LC/MS Pesticide Standard #8	Not available.
Odor threshold	:	LC/MS Pesticide Standard #1	70 to 875 ppm
		LC/MS Pesticide Standard #2	70 to 875 ppm
		LC/MS Pesticide Standard #3	70 to 875 ppm
		LC/MS Pesticide Standard #4	70 to 875 ppm
		LC/MS Pesticide Standard #5	70 to 875 ppm
		LC/MS Pesticide Standard #6	70 to 875 ppm
		LC/MS Pesticide Standard #7	70 to 875 ppm
		LC/MS Pesticide Standard #8	70 to 875 ppm
pH	:	LC/MS Pesticide Standard #1	Not available.
		LC/MS Pesticide Standard #2	Not available.
		LC/MS Pesticide Standard #3	Not available.
		LC/MS Pesticide Standard #4	Not available.
		LC/MS Pesticide Standard #5	Not available.
		LC/MS Pesticide Standard #6	Not available.
		LC/MS Pesticide Standard #7	Not available.
		LC/MS Pesticide Standard #8	Not available.

Section 9. Physical and chemical properties

Melting point	:	LC/MS Pesticide Standard #1	-48°C (-54.4°F)
		LC/MS Pesticide Standard #2	-48°C (-54.4°F)
		LC/MS Pesticide Standard #3	-48°C (-54.4°F)
		LC/MS Pesticide Standard #4	-48°C (-54.4°F)
		LC/MS Pesticide Standard #5	-48°C (-54.4°F)
		LC/MS Pesticide Standard #6	-48°C (-54.4°F)
		LC/MS Pesticide Standard #7	-48°C (-54.4°F)
		LC/MS Pesticide Standard #8	-48°C (-54.4°F)
Boiling point	:	LC/MS Pesticide Standard #1	81 to 82°C (177.8 to 179.6°F)
		LC/MS Pesticide Standard #2	81 to 82°C (177.8 to 179.6°F)
		LC/MS Pesticide Standard #3	81 to 82°C (177.8 to 179.6°F)
		LC/MS Pesticide Standard #4	81 to 82°C (177.8 to 179.6°F)
		LC/MS Pesticide Standard #5	81 to 82°C (177.8 to 179.6°F)
		LC/MS Pesticide Standard #6	81 to 82°C (177.8 to 179.6°F)
		LC/MS Pesticide Standard #7	81 to 82°C (177.8 to 179.6°F)
		LC/MS Pesticide Standard #8	81 to 82°C (177.8 to 179.6°F)
Flash point	:	LC/MS Pesticide Standard #1	Closed cup: 5.55°C (42°F)
		LC/MS Pesticide Standard #2	Closed cup: 5.55°C (42°F)
		LC/MS Pesticide Standard #3	Closed cup: 5.55°C (42°F)
		LC/MS Pesticide Standard #4	Closed cup: 5.55°C (42°F)
		LC/MS Pesticide Standard #5	Closed cup: 5.55°C (42°F)
		LC/MS Pesticide Standard #6	Closed cup: 5.55°C (42°F)
		LC/MS Pesticide Standard #7	Closed cup: 5.55°C (42°F)
		LC/MS Pesticide Standard #8	Closed cup: 5.55°C (42°F)
Evaporation rate	:	LC/MS Pesticide Standard #1	5.79 (butyl acetate = 1)
		LC/MS Pesticide Standard #2	5.79 (butyl acetate = 1)
		LC/MS Pesticide Standard #3	5.79 (butyl acetate = 1)
		LC/MS Pesticide Standard #4	5.79 (butyl acetate = 1)
		LC/MS Pesticide Standard #5	5.79 (butyl acetate = 1)
		LC/MS Pesticide Standard #6	5.79 (butyl acetate = 1)
		LC/MS Pesticide Standard #7	5.79 (butyl acetate = 1)
		LC/MS Pesticide Standard #8	5.79 (butyl acetate = 1)
Flammability (solid, gas)	:	LC/MS Pesticide Standard #1	Not applicable.
		LC/MS Pesticide Standard #2	Not applicable.
		LC/MS Pesticide Standard #3	Not applicable.
		LC/MS Pesticide Standard #4	Not applicable.
		LC/MS Pesticide Standard #5	Not applicable.
		LC/MS Pesticide Standard #6	Not applicable.
		LC/MS Pesticide Standard #7	Not applicable.
		LC/MS Pesticide Standard #8	Not applicable.
Lower and upper explosive (flammable) limits	:	LC/MS Pesticide Standard #1	Lower: 4.4% Upper: 16%
		LC/MS Pesticide Standard #2	Lower: 4.4% Upper: 16%
		LC/MS Pesticide Standard #3	Lower: 4.4% Upper: 16%
		LC/MS Pesticide Standard #4	Lower: 4.4% Upper: 16%
		LC/MS Pesticide Standard #5	Lower: 4.4% Upper: 16%
		LC/MS Pesticide Standard #6	Lower: 4.4% Upper: 16%
		LC/MS Pesticide Standard #7	Lower: 4.4% Upper: 16%
		LC/MS Pesticide Standard #8	Lower: 4.4% Upper: 16%

Section 9. Physical and chemical properties

Vapor pressure	:	LC/MS Pesticide Standard #1	9.7 kPa (72.8 mm Hg) [room temperature]
		LC/MS Pesticide Standard #2	9.7 kPa (72.8 mm Hg) [room temperature]
		LC/MS Pesticide Standard #3	9.7 kPa (72.8 mm Hg) [room temperature]
		LC/MS Pesticide Standard #4	9.7 kPa (72.8 mm Hg) [room temperature]
		LC/MS Pesticide Standard #5	9.7 kPa (72.8 mm Hg) [room temperature]
		LC/MS Pesticide Standard #6	9.7 kPa (72.8 mm Hg) [room temperature]
		LC/MS Pesticide Standard #7	9.7 kPa (72.8 mm Hg) [room temperature]
		LC/MS Pesticide Standard #8	9.7 kPa (72.8 mm Hg) [room temperature]
Vapor density	:	LC/MS Pesticide Standard #1	1.41 [Air = 1]
		LC/MS Pesticide Standard #2	1.41 [Air = 1]
		LC/MS Pesticide Standard #3	1.41 [Air = 1]
		LC/MS Pesticide Standard #4	1.41 [Air = 1]
		LC/MS Pesticide Standard #5	1.41 [Air = 1]
		LC/MS Pesticide Standard #6	1.41 [Air = 1]
		LC/MS Pesticide Standard #7	1.41 [Air = 1]
		LC/MS Pesticide Standard #8	1.41 [Air = 1]
Relative density	:	LC/MS Pesticide Standard #1	0.782 [Water = 1]
		LC/MS Pesticide Standard #2	0.782 [Water = 1]
		LC/MS Pesticide Standard #3	0.782 [Water = 1]
		LC/MS Pesticide Standard #4	0.782 [Water = 1]
		LC/MS Pesticide Standard #5	0.782 [Water = 1]
		LC/MS Pesticide Standard #6	0.782 [Water = 1]
		LC/MS Pesticide Standard #7	0.782 [Water = 1]
		LC/MS Pesticide Standard #8	0.782 [Water = 1]
Solubility	:	LC/MS Pesticide Standard #1	Soluble in the following materials: cold water and hot water.
		LC/MS Pesticide Standard #2	Soluble in the following materials: cold water and hot water.
		LC/MS Pesticide Standard #3	Soluble in the following materials: cold water and hot water.
		LC/MS Pesticide Standard #4	Soluble in the following materials: cold water and hot water.
		LC/MS Pesticide Standard #5	Soluble in the following materials: cold water and hot water.
		LC/MS Pesticide Standard #6	Soluble in the following materials: cold water and hot water.
		LC/MS Pesticide Standard #7	Soluble in the following materials: cold water and hot water.
		LC/MS Pesticide Standard #8	Soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	:	LC/MS Pesticide Standard #1	Not available.
		LC/MS Pesticide Standard #2	Not available.
		LC/MS Pesticide Standard #3	Not available.
		LC/MS Pesticide Standard #4	Not available.
		LC/MS Pesticide Standard #5	Not available.
		LC/MS Pesticide Standard #6	Not available.
		LC/MS Pesticide Standard #7	Not available.
		LC/MS Pesticide Standard #8	Not available.
Auto-ignition temperature	:	LC/MS Pesticide Standard #1	274°C (525.2°F)
		LC/MS Pesticide Standard #2	247°C (476.6°F)
		LC/MS Pesticide Standard #3	247°C (476.6°F)
		LC/MS Pesticide Standard #4	247°C (476.6°F)
		LC/MS Pesticide Standard #5	247°C (476.6°F)
		LC/MS Pesticide Standard #6	247°C (476.6°F)
		LC/MS Pesticide Standard #7	247°C (476.6°F)
		LC/MS Pesticide Standard #8	247°C (476.6°F)

Section 9. Physical and chemical properties

Decomposition temperature	:	LC/MS Pesticide Standard #1	Not available.
		LC/MS Pesticide Standard #2	Not available.
		LC/MS Pesticide Standard #3	Not available.
		LC/MS Pesticide Standard #4	Not available.
		LC/MS Pesticide Standard #5	Not available.
		LC/MS Pesticide Standard #6	Not available.
		LC/MS Pesticide Standard #7	Not available.
		LC/MS Pesticide Standard #8	Not available.
Viscosity	:	LC/MS Pesticide Standard #1	Not available.
		LC/MS Pesticide Standard #2	Not available.
		LC/MS Pesticide Standard #3	Not available.
		LC/MS Pesticide Standard #4	Not available.
		LC/MS Pesticide Standard #5	Not available.
		LC/MS Pesticide Standard #6	Not available.
		LC/MS Pesticide Standard #7	Not available.
		LC/MS Pesticide Standard #8	Not available.

Section 10. Stability and reactivity

10.1 Reactivity	:	LC/MS Pesticide Standard #1	No specific test data related to reactivity available for this product or its ingredients.
		LC/MS Pesticide Standard #2	No specific test data related to reactivity available for this product or its ingredients.
		LC/MS Pesticide Standard #3	No specific test data related to reactivity available for this product or its ingredients.
		LC/MS Pesticide Standard #4	No specific test data related to reactivity available for this product or its ingredients.
		LC/MS Pesticide Standard #5	No specific test data related to reactivity available for this product or its ingredients.
		LC/MS Pesticide Standard #6	No specific test data related to reactivity available for this product or its ingredients.
		LC/MS Pesticide Standard #7	No specific test data related to reactivity available for this product or its ingredients.
		LC/MS Pesticide Standard #8	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	LC/MS Pesticide Standard #1	The product is stable.
		LC/MS Pesticide Standard #2	The product is stable.
		LC/MS Pesticide Standard #3	The product is stable.
		LC/MS Pesticide Standard #4	The product is stable.
		LC/MS Pesticide Standard #5	The product is stable.
		LC/MS Pesticide Standard #6	The product is stable.
		LC/MS Pesticide Standard #7	The product is stable.
		LC/MS Pesticide Standard #8	The product is stable.
10.3 Possibility of hazardous reactions	:	LC/MS Pesticide Standard #1	Under normal conditions of storage and use, hazardous reactions will not occur.
		LC/MS Pesticide Standard #2	Under normal conditions of storage and use, hazardous reactions will not occur.
		LC/MS Pesticide Standard #3	Under normal conditions of storage and use, hazardous reactions will not occur.
		LC/MS Pesticide Standard #4	Under normal conditions of storage and use, hazardous reactions will not occur.
		LC/MS Pesticide Standard #5	Under normal conditions of storage and use, hazardous reactions will not occur.
		LC/MS Pesticide Standard #6	Under normal conditions of storage and use, hazardous reactions will not occur.
		LC/MS Pesticide Standard #7	Under normal conditions of storage and use,

Section 10. Stability and reactivity

			hazardous reactions will not occur.
		LC/MS Pesticide Standard #8	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	LC/MS Pesticide Standard #1	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
		LC/MS Pesticide Standard #2	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
		LC/MS Pesticide Standard #3	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
		LC/MS Pesticide Standard #4	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
		LC/MS Pesticide Standard #5	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
		LC/MS Pesticide Standard #6	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
		LC/MS Pesticide Standard #7	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
		LC/MS Pesticide Standard #8	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
10.5 Incompatible materials	:	LC/MS Pesticide Standard #1	Reactive or incompatible with the following materials: oxidizing materials
		LC/MS Pesticide Standard #2	Reactive or incompatible with the following materials: oxidizing materials
		LC/MS Pesticide Standard #3	Reactive or incompatible with the following materials: oxidizing materials
		LC/MS Pesticide Standard #4	Reactive or incompatible with the following materials: oxidizing materials
		LC/MS Pesticide Standard #5	Reactive or incompatible with the following

Section 10. Stability and reactivity

		materials: oxidizing materials
	LC/MS Pesticide Standard #6	Reactive or incompatible with the following materials: oxidizing materials
	LC/MS Pesticide Standard #7	Reactive or incompatible with the following materials: oxidizing materials
	LC/MS Pesticide Standard #8	Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products :	LC/MS Pesticide Standard #1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	LC/MS Pesticide Standard #2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	LC/MS Pesticide Standard #3	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	LC/MS Pesticide Standard #4	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	LC/MS Pesticide Standard #5	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	LC/MS Pesticide Standard #6	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	LC/MS Pesticide Standard #7	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	LC/MS Pesticide Standard #8	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
LC/MS Pesticide Standard #1				
Acetonitrile	LC50 Inhalation Vapor	Rat	17100 ppm	4 hours
	LD50 Oral	Rat	2460 mg/kg	-
Methamidophos (ISO)	LC50 Inhalation Dusts and mists	Rat	162 mg/m³	4 hours
	LD50 Dermal	Rabbit	100 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	7500 µg/kg	-
Azinphos-ethyl (ISO)	LD50 Dermal	Rat	250 mg/kg	-
	LD50 Oral	Rat	7 mg/kg	-
Fenamiphos (ISO)	LC50 Inhalation Dusts and mists	Rat	91 mg/m³	4 hours
	LD50 Dermal	Rabbit	178 mg/kg	-
	LD50 Dermal	Rat	80 mg/kg	-
	LD50 Oral	Rat	8 mg/kg	-
Lenacil	LD50 Dermal	Rabbit	>5 g/kg	-

Section 11. Toxicological information

	LD50 Oral	Rat	11000 mg/kg	-
Diflufenican (ISO)	LD50 Dermal	Rat	2 g/kg	-
	LD50 Oral	Rat	2 g/kg	-
Disulfoton (ISO)	LC50 Inhalation Dusts and mists	Rat	90 mg/m³	1 hours
	LC50 Inhalation Vapor	Rat	180 ppb	1 hours
	LD50 Dermal	Rat	3.6 mg/kg	-
	LD50 Oral	Rat	2600 µg/kg	-
4H-1,3,5-Thiadiazin-4-one, 2-[(1,1-dimethylethyl)imino] tetrahydro-3-(1-methylethyl) -5-phenyl-	LD50 Dermal	Rat	>5 g/kg	-
	LD50 Oral	Rat	2198 mg/kg	-
Spiroxamine (ISO)	LC50 Inhalation Vapor	Rat	1982 g/m³	4 hours
	LD50 Dermal	Rat	1068 mg/kg	-
Azinphos-methyl (ISO)	LC50 Inhalation Dusts and mists	Rat	34.5 mg/m³	4 hours
	LD50 Oral	Rat	7 mg/kg	-
Acephate (ISO)	LD50 Dermal	Rabbit	2 g/kg	-
	LD50 Oral	Rat	700 mg/kg	-
LC/MS Pesticide Standard #2				
Acetonitrile	LC50 Inhalation Vapor	Rat	17100 ppm	4 hours
	LD50 Oral	Rat	2460 mg/kg	-
Chlorfenvinphos (ISO)	LD50 Oral	Rat	10 mg/kg	-
Chlorpyrifos-methyl	LD50 Dermal	Rat	3713 mg/kg	-
	LD50 Oral	Rat	1828 mg/kg	-
Propiconazole (ISO)	LC50 Inhalation Dusts and mists	Rat	1264 mg/m³	4 hours
	LD50 Oral	Rat	1517 mg/kg	-
Fenarimol (ISO)	LD50 Oral	Rat	2500 mg/kg	-
Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3, 3-trifluoro-1-propen-1-yl]-2, 2-dimethyl-, (2-methyl[1,1'-biphenyl]-3-yl)methyl ester, (1R,3R)-rel-	LC50 Inhalation Dusts and mists	Rat	1.01 mg/l	4 hours
	LD50 Oral	Rat	54500 µg/kg	-
S-[(6-chloro-2-oxooxazolo[4, 5-b]pyridin-3(2H)-yl)methyl] O,O-dimethyl thiophosphate	LD50 Oral	Rat	1040 mg/kg	-
Diazinon (ISO)	LC50 Inhalation Dusts and mists	Rat	3.5 g/m³	4 hours
	LD50 Dermal	Rabbit	3.6 g/kg	-
	LD50 Dermal	Rat	180 mg/kg	-
	LD50 Oral	Rat	66 mg/kg	-
Dichlorvos (ISO)	LC50 Inhalation Dusts and mists	Rat	15 mg/m³	4 hours
	LD50 Dermal	Rabbit	107 mg/kg	-
	LD50 Dermal	Rat	0.75 mg/kg	-
	LD50 Oral	Rat	17 mg/kg	-
Ethion (ISO)	LD50 Dermal	Rat	62 mg/kg	-
	LD50 Oral	Rat	13 mg/kg	-
BROMUCONAZOLE	LD50 Oral	Rat	365 mg/kg	-
Coumaphos (ISO)	LD50 Dermal	Rabbit	500 mg/kg	-
	LD50 Dermal	Rat	860 mg/kg	-
	LD50 Oral	Rat	13 mg/kg	-
Chlorpyrifos (ISO)	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Dermal	Rat	202 mg/kg	-
	LD50 Oral	Rat	82 mg/kg	-
Ethoprophos (ISO)	LD50 Dermal	Rabbit	2.4 mg/kg	-
	LD50 Dermal	Rat	60 mg/kg	-

Section 11. Toxicological information

	LD50 Oral	Rat	33 mg/kg	-
LC/MS Pesticide Standard #3				
Acetonitrile	LC50 Inhalation Vapor	Rat	17100 ppm	4 hours
	LD50 Oral	Rat	2460 mg/kg	-
S-tert-Butylthiomethyl O,O-diethylphosphorodithioate	LD50 Dermal	Rabbit	1 mg/kg	-
	LD50 Dermal	Rat	7.4 mg/kg	-
	LD50 Oral	Rat	1.6 mg/kg	-
Succinic acid, mercapto-, diethyl ester, S-ester with O, O-dimethylphosphorothioate	LD50 Dermal	Rabbit	119 mg/kg	-
	LD50 Oral	Rat	158 mg/kg	-
Pirimicarb (ISO)	LD50 Dermal	Rabbit	500 mg/kg	-
	LD50 Dermal	Rat	500 mg/kg	-
	LD50 Oral	Rat	68 mg/kg	-
Pirimiphos-methyl (ISO)	LD50 Oral	Rat	1250 mg/kg	-
Quinalphos (ISO)	LD50 Dermal	Rat	300 mg/kg	-
	LD50 Oral	Rat	26 mg/kg	-
Profenofos (ISO)	LC50 Inhalation Dusts and mists	Rat	3 g/m³	4 hours
	LD50 Dermal	Rabbit	192 mg/kg	-
	LD50 Dermal	Rat	1610 mg/kg	-
	LD50 Oral	Rat	358 mg/kg	-
Phosphamidon	LC50 Inhalation Dusts and mists	Rat	135 mg/m³	4 hours
	LD50 Dermal	Rabbit	80 mg/kg	-
	LD50 Dermal	Rat	125 mg/kg	-
	LD50 Oral	Rat	8 mg/kg	-
Phenthoate (ISO)	LC50 Inhalation Dusts and mists	Rat	59 mg/m³	4 hours
	LD50 Dermal	Rat	700 mg/kg	-
	LD50 Oral	Rat	71 mg/kg	-
Methidathion (ISO)	LC50 Inhalation Dusts and mists	Rat	50 mg/m³	4 hours
	LD50 Dermal	Rabbit	196 mg/kg	-
	LD50 Dermal	Rat	25 mg/kg	-
	LD50 Oral	Rat	20 mg/kg	-
Trans-isopropyl-3-[[(ethylamino) methoxyfosfinothioyl]oxy] crotonate	LD50 Dermal	Rat	564 mg/kg	-
	LD50 Oral	Rat	62400 µg/kg	-
Dichloro-N-[(dimethylamino) sulphonyl]fluoro-N-(p-tolyl) methanesulphenamide liquid	LC50 Inhalation Dusts and mists	Rat	300 mg/m³	4 hours
	LD50 Dermal	Rat	500 mg/kg	-
	LD50 Oral	Rat	1 g/kg	-
1H-1,2,4-Triazole, 1-[[2-[2-chloro-4-(4-chlorophenoxy) phenyl]-4-methyl-1, 3-dioxolan-2-yl]methyl]-	LC50 Inhalation Dusts and mists	Rat	3300 mg/m³	4 hours
	LD50 Dermal	Rat	2010 mg/kg	-
	LD50 Oral	Rat	1453 mg/kg	-
quinoxyfen (ISO)	LD50 Oral	Rat	5000 mg/kg	-
Malathion (ISO)	LC50 Inhalation Vapor	Rat	43790 µg/m³	4 hours
	LD50 Dermal	Rabbit	4100 mg/kg	-
	LD50 Oral	Rat	290 mg/kg	-
2-Chloro-2'-ethyl-N-(2-methoxy-1-methylethyl)-6'-methylacetanilide	LD50 Dermal	Rabbit	>10 g/kg	-

Section 11. Toxicological information

	LD50 Dermal	Rat	3170 mg/kg	-
	LD50 Oral	Rat	2200 mg/kg	-
Oxadiazon (ISO)	LD50 Dermal	Rat	5200 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
N-(1-Ethylpropyl)-2,6-dinitro-3,4-xylidine	LC50 Inhalation Dusts and mists	Rat	320 g/m³	4 hours
	LD50 Dermal	Rabbit	2260 mg/kg	-
	LD50 Oral	Rat	1050 mg/kg	-
2-Chloro-N-(2, 6-dimethylphenyl)-N-(1H-pyrazol-1-ylmethyl)acetamide	LD50 Dermal	Rat	>6810 mg/kg	-
	LD50 Oral	Rat	1 g/kg	-
Mecarbam (ISO)	LD50 Dermal	Rat	380 mg/kg	-
	LD50 Oral	Rat	31 mg/kg	-
Triazophos (ISO)	LC50 Inhalation Dusts and mists	Rat	280 mg/m³	4 hours
	LD50 Dermal	Rat	1100 mg/kg	-
	LD50 Oral	Rat	57 mg/kg	-
1H-Pyrazole-5-carboxamide, 4-chloro-N-[[4-(1, 1-dimethylethyl)phenyl] methyl]-3-ethyl-1-methyl-	LD50 Oral	Rat	595 mg/kg	-
Mevinphos (ISO)	LC50 Inhalation Dusts and mists	Rat	0.125 g/m³	1 hours
	LC50 Inhalation Vapor	Rat	14 ppm	1 hours
	LD50 Dermal	Rabbit	4700 µg/kg	-
	LD50 Dermal	Rat	4200 µg/kg	-
	LD50 Oral	Rat	3 mg/kg	-
Phosalone	LD50 Dermal	Rabbit	1 g/kg	-
	LD50 Dermal	Rat	390 mg/kg	-
	LD50 Oral	Rat	85 mg/kg	-
LC/MS Pesticide Standard #4				
Acetonitrile	LC50 Inhalation Vapor	Rat	17100 ppm	4 hours
	LD50 Oral	Rat	2460 mg/kg	-
Monocrotophos (ISO)	LC50 Inhalation Dusts and mists	Rat	63 mg/m³	4 hours
	LD50 Dermal	Rabbit	270 mg/kg	-
	LD50 Dermal	Rat	112 mg/kg	-
	LD50 Oral	Rat	8 mg/kg	-
fipronil (ISO)	LD50 Dermal	Rabbit	354 mg/kg	-
	LD50 Oral	Rat	97 mg/kg	-
N-[[(4-chlorophenyl)amino] carbonyl]-2, 6-difluorobenzamide	LD50 Dermal	Rabbit	2 g/kg	-
	LD50 Dermal	Rat	>10 g/kg	-
Carfentrazone-ethyl (ISO)	LC50 Inhalation Dusts and mists	Rat	5.09 mg/l	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-
Kresoxim-methyl (ISO)	LC50 Inhalation Dusts and mists	Rat	5.6 g/m³	4 hours
	LD50 Dermal	Rat	2000 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
Phoxim (ISO)	LD50 Dermal	Rat	1 g/kg	-
	LD50 Oral	Rat	300 mg/kg	-
Chlorsulfuron (ISO)	LD50 Dermal	Rabbit	2500 mg/kg	-
	LD50 Oral	Rat	5545 mg/kg	-
Linuron (ISO)	LC50 Inhalation Dusts and mists	Rat	48 mg/m³	4 hours
	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	1146 mg/kg	-
Metribuzin (ISO)	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Dermal	Rat	2 g/kg	-

Section 11. Toxicological information

	LD50 Oral	Rat	1100 mg/kg	-
Methyl 2-(3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl) 3-methylureidosulphonyl) benzoate	LD50 Oral	Rat	>5000 mg/kg	-
Metsulfuron-methyl	LD50 Oral	Rat	>5000 mg/kg	-
Cyazofamid (ISO)	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Flazasulfuron (ISO)	LD50 Oral	Rat	>5 g/kg	-
hexythiazox (ISO)	LD50 Dermal	Rat	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
Hydrazinecarboxamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl] ethylidene]-N-[4-(trifluoromethoxy)phenyl]-	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Benzamide, N-[[[3-chloro-4-[1,1,2-trifluoro-2-(trifluoromethoxy)ethoxy] phenyl]amino]carbonyl]-2,6-difluoro-	LD50 Oral	Rat	>5000 mg/kg	-
Aminocarb (ISO)	LD50 Dermal	Rat	275 mg/kg	-
	LD50 Oral	Rat	30 mg/kg	-
Benzamide, N-[[(3,5-dichloro-2,4-difluorophenyl)amino] carbonyl]-2,6-difluoro-	LD50 Oral	Rat	>5 g/kg	-
Propargite (ISO)	LC50 Inhalation Dusts and mists	Rat - Male, Female	0.89 mg/l	4 hours
	LD50 Dermal	Rabbit	10300 mg/kg	-
	LD50 Dermal	Rat	250 mg/kg	-
	LD50 Oral	Rat	1480 mg/kg	-
LC/MS Pesticide Standard #5				
Acetonitrile	LC50 Inhalation Vapor	Rat	17100 ppm	4 hours
	LD50 Oral	Rat	2460 mg/kg	-
Aldicarb (ISO)	LD50 Dermal	Rabbit	5 mg/kg	-
	LD50 Dermal	Rat	2500 µg/kg	-
	LD50 Oral	Rat	0.46 mg/kg	-
fenobucarb (ISO)	LD50 Dermal	Rat	>5 g/kg	-
	LD50 Oral	Rat	350 mg/kg	-
Dimethyl N,N'-[thiobis[(methylimino)carbonyloxy]]bis (thioimidoacetate)	LC50 Inhalation Vapor	Rat	220 mg/m³	4 hours
	LD50 Dermal	Rabbit	6310 mg/kg	-
	LD50 Oral	Rat	39 mg/kg	-
pyridaben (ISO)	LD50 Oral	Rat	570 mg/kg	-
Thiamethoxam (ISO)	LD50 Oral	Rat	1563 mg/kg	-
Carbendazim (ISO)	LD50 Dermal	Rabbit	8500 mg/kg	-
	LD50 Dermal	Rat	2 g/kg	-
	LD50 Oral	Rat	>5050 mg/kg	-
fenazaquin (ISO)	LD50 Oral	Rat	134 mg/kg	-
Cyanamide, N-[3-[(6-chloro-3-pyridinyl)methyl] -2-thiazolidinylidene]-, [N(Z)]-	LC50 Inhalation Dusts and mists	Rat	1223 mg/m³	4 hours
	LD50 Oral	Rat	444 mg/kg	-
Diuron (ISO)	LD50 Dermal	Rat	>5 g/kg	-

Section 11. Toxicological information

	LD50 Oral	Rat	1 g/kg	-
Methomyl (ISO)	LC50 Inhalation Vapor	Rat	0.3 g/m³	4 hours
	LC50 Inhalation Vapor	Rat	77 ppm	4 hours
	LD50 Dermal	Rabbit	556 mg/kg	-
	LD50 Dermal	Rat	1000 mg/kg	-
	LD50 Oral	Rat	12 mg/kg	-
2-Imidazolidinimine, 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-, (2E)-	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	410 mg/kg	-
LC/MS Pesticide Standard #6				
Acetonitrile	LC50 Inhalation Vapor	Rat	17100 ppm	4 hours
	LD50 Oral	Rat	2460 mg/kg	-
Trichlorfon (ISO)	LD50 Dermal	Rat	2 g/kg	-
	LD50 Oral	Rat	450 mg/kg	-
Omethoate (ISO)	LD50 Dermal	Rat	700 mg/kg	-
	LD50 Oral	Rat	30 mg/kg	-
Flumioxazin (ISO)	LD50 Oral	Rat	>5000 mg/kg	-
Carbaryl (ISO)	LD50 Dermal	Rabbit	2 g/kg	-
	LD50 Dermal	Rat	4 g/kg	-
	LD50 Oral	Rat	230 mg/kg	-
Propoxur (ISO)	LC50 Inhalation Dusts and mists	Rat	1440 mg/m³	1 hours
	LC50 Inhalation Dusts and mists	Rat	360 mg/m³	4 hours
	LD50 Dermal	Rabbit	500 mg/kg	-
	LD50 Dermal	Rat	800 mg/kg	-
	LD50 Oral	Rat	41 mg/kg	-
2,3-Dihydro-2,2-dimethyl-7-benzofuryl 2,4-dimethyl-6-oxa-5-oxo-3-thia-2, 4-diazadecanoate	LC50 Inhalation Dusts and mists	Rat	214 mg/m³	4 hours
	LD50 Oral	Rat	53 mg/kg	-
Methanesulfonamide, N-[2, 4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2, 4-triazol-1-yl]phenyl]-	LC50 Inhalation Dusts and mists	Rat	>4.14 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	285 mg/kg	-
Zoxamide (ISO)	LC50 Inhalation Dusts and mists	Rat	5.3 g/m³	4 hours
	LD50 Dermal	Rat	2000 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
phosmet (ISO)	LC50 Inhalation Dusts and mists	Rat	54 mg/m³	4 hours
	LD50 Dermal	Rat	1326 mg/kg	-
	LD50 Oral	Rat	92500 µg/kg	-
LC/MS Pesticide Standard #7				
Acetonitrile	LC50 Inhalation Vapor	Rat	17100 ppm	4 hours
	LD50 Oral	Rat	2460 mg/kg	-
Mercaptodimethur (ISO)	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Dermal	Rat	300 mg/kg	-
	LD50 Oral	Rat	13 mg/kg	-
Avermectin B1	LC50 Inhalation Dusts and mists	Rat	1100 mg/m³	4 hours
	LD50 Oral	Rat	1.5 mg/kg	-
Spinosad (ISO) (reaction mass of spinosyn A and	LD50 Dermal	Rabbit	>5000 mg/kg	-

Section 11. Toxicological information

spinosyn D in ratios between 95:5 to 50:50)				
	LD50 Dermal	Rat	2800 mg/kg	-
	LD50 Oral	Rat	3.738 mg/kg	-
5,5-Dimethyl-perhydro-pyrimidin-2-one α-(4-trifluoromethylstyryl)-α-(4-trifluoromethyl) cinnamylidenehydrazone	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Dermal	Rat	1502 mg/kg	-
	LD50 Oral	Rat	817 mg/kg	-
Ivermectin	LD50 Oral	Rat	2 mg/kg	-
Chlorotoluron (ISO)	LD50 Oral	Rat	5800 mg/kg	-
Mexacarbate (ISO)	LD50 Oral	Rat	8.5 mg/kg	-
1-(3,5-Dichloro-4-(1,1,2,2-tetrafluoroethoxy)phenyl)-3-(2,6-difluorobenzoyl)urea	LD50 Dermal	Rat	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
Temephos	LD50 Dermal	Rabbit	970 mg/kg	-
	LD50 Dermal	Rat	1370 mg/kg	-
	LD50 Oral	Rat	1 g/kg	-
(2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo[2,3-h]chromen-6-one	LD50 Oral	Rat	25 mg/kg	-
tebuthiuron (ISO)	LD50 Dermal	Rat	>5 g/kg	-
	LD50 Oral	Rat	644 mg/kg	-
LC/MS Pesticide Standard #8				
Acetonitrile	LC50 Inhalation Vapor	Rat	17100 ppm	4 hours
	LD50 Oral	Rat	2460 mg/kg	-
4-Cyclopropyl-6-methyl-n-phenyl-2-pyrimidinamin	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Lenacil	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	11000 mg/kg	-
Dimethoate (ISO)	LD50 Dermal	Rabbit	1 g/kg	-
	LD50 Dermal	Rat	353 mg/kg	-
	LD50 Oral	Rat	60 mg/kg	-
[1,2,4]Triazolo[1,5-a]pyrimidine-2-sulfonamide, N-(2,6-difluorophenyl)-5-methyl-	LD50 Oral	Rat	>5 g/kg	-
Carbofuran (ISO)	LD50 Dermal	Rabbit	885 mg/kg	-
	LD50 Dermal	Rat	120 mg/kg	-
	LD50 Oral	Rat	5 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
LC/MS Pesticide Standard #1					
Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
LC/MS Pesticide Standard #2					

Section 11. Toxicological information

Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
Chlorpyrifos-methyl	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Diazinon (ISO)	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	500 milligrams	-
LC/MS Pesticide Standard #3					
Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
Quinalphos (ISO)	Eyes - Severe irritant	Rabbit	-	100 microliters	-
Methidathion (ISO)	Eyes - Severe irritant	Rabbit	-	24400 Micrograms	-
2-Chloro-2'-ethyl-N-(2-methoxy-1-methylethyl)-6'-methylacetanilide	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	334 milligrams	-
1H-Pyrazole-5-carboxamide, 4-chloro-N-[[4-(1, 1-dimethylethyl)phenyl] methyl]-3-ethyl-1-methyl-	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
LC/MS Pesticide Standard #4					
Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
LC/MS Pesticide Standard #5					
Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
LC/MS Pesticide Standard #6					
Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
Trichlorfon (ISO)	Eyes - Mild irritant	Rabbit	-	144 hours 120 milligrams Intermittent	-
Carbaryl (ISO)	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 12 milligrams	-

Section 11. Toxicological information

LC/MS Pesticide Standard #7					
Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
Temephos	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
(2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo[2,3-h]chromen-6-one	Eyes - Mild irritant	Rabbit	-	1 Percent	-
LC/MS Pesticide Standard #8					
Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
Carbofuran (ISO)	Skin - Mild irritant	Rabbit	-	500 milligrams	-

Sensitization

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
LC/MS Pesticide Standard #2			
Diazinon (ISO)	-	2A	-
Dichlorvos (ISO)	-	2B	-
LC/MS Pesticide Standard #3			
Malathion (ISO)	-	2A	-
LC/MS Pesticide Standard #5			
Aldicarb (ISO)	-	3	-
LC/MS Pesticide Standard #6			
Trichlorfon (ISO)	-	3	-
Carbaryl (ISO)	-	3	-
LC/MS Pesticide Standard #7			
Mexacarbate (ISO)	-	3	-

Reproductive toxicity

Conclusion/Summary : Not available.

Section 11. Toxicological information

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
LC/MS Pesticide Standard #1			
Methamidophos (ISO)	Category 2	Not determined	nervous system
Spiroxamine (ISO)	Category 3	Not applicable.	Respiratory tract irritation
LC/MS Pesticide Standard #2			
Coumaphos (ISO)	Category 3	Not applicable.	Respiratory tract irritation
Chlorpyrifos (ISO)	Category 2	Not determined	nervous system
LC/MS Pesticide Standard #3			
Pirimicarb (ISO)	Category 2	Not determined	nervous system
Dichloro-N-[(dimethylamino)sulphonyl]fluoro-N-(p-tolyl) methanesulphenamide liquid	Category 3	Not applicable.	Respiratory tract irritation
Mecarbam (ISO)	Category 2	Not determined	nervous system
LC/MS Pesticide Standard #4			
Metribuzin (ISO)	Category 3	Not applicable.	Narcotic effects
Propargite (ISO)	Category 3	Not applicable.	Respiratory tract irritation
LC/MS Pesticide Standard #5			
fenobucarb (ISO)	Category 1	Not determined	nervous system
Pyraclostrobin	Category 3	Not applicable.	Respiratory tract irritation
LC/MS Pesticide Standard #6			
Carbaryl (ISO)	Category 3	Not applicable.	Respiratory tract irritation
2,3-Dihydro-2,2-dimethyl-7-benzofuryl 2,4-dimethyl-6-oxa-5-oxo-3-thia-2,4-diazadecanoate	Category 3	Not applicable.	Respiratory tract irritation
LC/MS Pesticide Standard #7			
(2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo[2,3-h]chromen-6-one	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
LC/MS Pesticide Standard #1			
Acetonitrile	Category 2	Not determined	blood system, central nervous system (CNS), kidneys and liver
Fenamiphos (ISO)	Category 2	Not determined	nervous system
Disulfoton (ISO)	Category 2	Not determined	nervous system
4H-1,3,5-Thiadiazin-4-one, 2-[(1,1-dimethylethyl)imino] tetrahydro-3-(1-methylethyl)-5-phenyl-	Category 2	Not determined	liver and thyroid
LC/MS Pesticide Standard #2			

Section 11. Toxicological information

Acetonitrile	Category 2	Not determined	blood system, central nervous system (CNS), kidneys and liver
Chlorpyrifos-methyl	Category 2	Not determined	nervous system
Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propen-1-yl]-2,2-dimethyl-, (2-methyl[1,1'-biphenyl]-3-yl)methyl ester, (1R,3R)-rel-	Category 1	Not determined	nervous system
Ethion (ISO)	Category 2	Not determined	nervous system
Coumaphos (ISO)	Category 2	Not determined	nervous system
Ethoprophos (ISO)	Category 2	Not determined	nervous system
LC/MS Pesticide Standard #3			
Acetonitrile	Category 2	Not determined	blood system, central nervous system (CNS), kidneys and liver
S-tert-Butylthiomethyl O,O-diethylphosphorodithioate	Category 2	Not determined	nervous system
Profenofos (ISO)	Category 2	Not determined	nervous system
Phenthoate (ISO)	Category 2	Not determined	nervous system
Methidathion (ISO)	Category 2	Not determined	nervous system
Trans-isopropyl-3-[[(ethylamino)methoxyfosfinothioyl]oxy] crotonate	Category 2	Not determined	nervous system
Dichloro-N-[(dimethylamino)sulphonyl]fluoro-N-(p-tolyl) methanesulphenamide liquid	Category 1	Not determined	Not determined
1H-Pyrazole-5-carboxamide, 4-chloro-N-[[4-(1,1-dimethylethyl)phenyl]methyl]-3-ethyl-1-methyl-	Category 2	Oral	gastrointestinal tract
Mevinphos (ISO)	Category 2	Not determined	central nervous system (CNS)
LC/MS Pesticide Standard #4			
Acetonitrile	Category 2	Not determined	blood system, central nervous system (CNS), kidneys and liver
Monocrotophos (ISO)	Category 2	Not determined	nervous system
fipronil (ISO)	Category 1	Not determined	nervous system
	Category 2	Not determined	liver and thyroid
famoxadone (ISO)	Category 2	Not determined	Not determined
Linuron (ISO)	Category 2	Not determined	blood system
Metribuzin (ISO)	Category 2	Not determined	liver
Hydrazinecarboxamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl]ethylidene]-N-[4-(trifluoromethoxy) phenyl]-	Category 2	Not determined	Not determined
LC/MS Pesticide Standard #5			
Acetonitrile	Category 2	Not determined	blood system, central nervous system (CNS), kidneys and liver
Aldicarb (ISO)	Category 2	Not determined	nervous system
Trifloxystrobin (ISO)	Category 2	Not determined	liver
Carbendazim (ISO)	Category 2	Not determined	liver
Diuron (ISO)	Category 2	Inhalation	blood system
Methomyl (ISO)	Category 2	Not determined	nervous system
LC/MS Pesticide Standard #6			
Acetonitrile	Category 2	Not determined	blood system,

Section 11. Toxicological information

			central nervous system (CNS), kidneys and liver
Trichlorfon (ISO)	Category 2	Not determined	nervous system
Omethoate (ISO)	Category 2	Not determined	nervous system
Propoxur (ISO)	Category 2	Not determined	nervous system
2,3-Dihydro-2,2-dimethyl-7-benzofuryl 2,4-dimethyl-6-oxa-5-oxo-3-thia-2,4-diazadecanoate	Category 2	Not determined	nervous system
phosmet (ISO)	Category 2	Not determined	nervous system
LC/MS Pesticide Standard #7			
Acetonitrile	Category 2	Not determined	blood system, central nervous system (CNS), kidneys and liver
Avermectin B1	Category 1	Not determined	nervous system
5,5-Dimethyl-perhydro-pyrimidin-2-one α-(4-trifluoromethylstyryl)-α-(4-trifluoromethyl) cinnamylidenehydrazone	Category 1	Not determined	Not determined
Ivermectin	Category 2	Not determined	Not determined
Temephos	Category 2	Not determined	nervous system
LC/MS Pesticide Standard #8			
Acetonitrile	Category 2	Not determined	blood system, central nervous system (CNS), kidneys and liver

Aspiration hazard

Not available.

Information on the likely routes of exposure :

LC/MS Pesticide Standard #1	Routes of entry anticipated: Oral, Dermal, Inhalation.
LC/MS Pesticide Standard #2	Routes of entry anticipated: Oral, Dermal, Inhalation.
LC/MS Pesticide Standard #3	Routes of entry anticipated: Oral, Dermal, Inhalation.
LC/MS Pesticide Standard #4	Routes of entry anticipated: Oral, Dermal, Inhalation.
LC/MS Pesticide Standard #5	Routes of entry anticipated: Oral, Dermal, Inhalation.
LC/MS Pesticide Standard #6	Routes of entry anticipated: Oral, Dermal, Inhalation.
LC/MS Pesticide Standard #7	Routes of entry anticipated: Oral, Dermal, Inhalation.
LC/MS Pesticide Standard #8	Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact :

LC/MS Pesticide Standard #1	Causes serious eye irritation.
LC/MS Pesticide Standard #2	Causes serious eye irritation.
LC/MS Pesticide Standard #3	Causes serious eye irritation.
LC/MS Pesticide Standard #4	Causes serious eye irritation.
LC/MS Pesticide Standard #5	Causes serious eye irritation.
LC/MS Pesticide Standard #6	Causes serious eye irritation.
LC/MS Pesticide Standard #7	Causes serious eye irritation.
LC/MS Pesticide Standard #8	Causes serious eye irritation.

Section 11. Toxicological information

Inhalation	:	LC/MS Pesticide Standard #1	Harmful if inhaled.
		LC/MS Pesticide Standard #2	Harmful if inhaled.
		LC/MS Pesticide Standard #3	Harmful if inhaled.
		LC/MS Pesticide Standard #4	Harmful if inhaled.
		LC/MS Pesticide Standard #5	Harmful if inhaled.
		LC/MS Pesticide Standard #6	Harmful if inhaled.
		LC/MS Pesticide Standard #7	Harmful if inhaled.
		LC/MS Pesticide Standard #8	Harmful if inhaled.
Skin contact	:	LC/MS Pesticide Standard #1	Harmful in contact with skin.
		LC/MS Pesticide Standard #2	Harmful in contact with skin.
		LC/MS Pesticide Standard #3	Harmful in contact with skin.
		LC/MS Pesticide Standard #4	Harmful in contact with skin.
		LC/MS Pesticide Standard #5	Harmful in contact with skin.
		LC/MS Pesticide Standard #6	Harmful in contact with skin.
		LC/MS Pesticide Standard #7	Harmful in contact with skin.
		LC/MS Pesticide Standard #8	Harmful in contact with skin.
Ingestion	:	LC/MS Pesticide Standard #1	Harmful if swallowed.
		LC/MS Pesticide Standard #2	Harmful if swallowed.
		LC/MS Pesticide Standard #3	Harmful if swallowed.
		LC/MS Pesticide Standard #4	Harmful if swallowed.
		LC/MS Pesticide Standard #5	Harmful if swallowed.
		LC/MS Pesticide Standard #6	Harmful if swallowed.
		LC/MS Pesticide Standard #7	Harmful if swallowed.
		LC/MS Pesticide Standard #8	Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	LC/MS Pesticide Standard #1	Adverse symptoms may include the following: pain or irritation watering redness
		LC/MS Pesticide Standard #2	Adverse symptoms may include the following: pain or irritation watering redness
		LC/MS Pesticide Standard #3	Adverse symptoms may include the following: pain or irritation watering redness
		LC/MS Pesticide Standard #4	Adverse symptoms may include the following: pain or irritation watering redness
		LC/MS Pesticide Standard #5	Adverse symptoms may include the following: pain or irritation watering redness
		LC/MS Pesticide Standard #6	Adverse symptoms may include the following: pain or irritation watering redness
		LC/MS Pesticide Standard #7	Adverse symptoms may include the following: pain or irritation watering redness
		LC/MS Pesticide Standard #8	Adverse symptoms may include the following: pain or irritation watering

Section 11. Toxicological information

			redness
Inhalation	:	LC/MS Pesticide Standard #1	No specific data.
		LC/MS Pesticide Standard #2	No specific data.
		LC/MS Pesticide Standard #3	No specific data.
		LC/MS Pesticide Standard #4	No specific data.
		LC/MS Pesticide Standard #5	No specific data.
		LC/MS Pesticide Standard #6	No specific data.
		LC/MS Pesticide Standard #7	No specific data.
		LC/MS Pesticide Standard #8	No specific data.
Skin contact	:	LC/MS Pesticide Standard #1	No specific data.
		LC/MS Pesticide Standard #2	No specific data.
		LC/MS Pesticide Standard #3	No specific data.
		LC/MS Pesticide Standard #4	No specific data.
		LC/MS Pesticide Standard #5	No specific data.
		LC/MS Pesticide Standard #6	No specific data.
		LC/MS Pesticide Standard #7	No specific data.
		LC/MS Pesticide Standard #8	No specific data.
Ingestion	:	LC/MS Pesticide Standard #1	No specific data.
		LC/MS Pesticide Standard #2	No specific data.
		LC/MS Pesticide Standard #3	No specific data.
		LC/MS Pesticide Standard #4	No specific data.
		LC/MS Pesticide Standard #5	No specific data.
		LC/MS Pesticide Standard #6	No specific data.
		LC/MS Pesticide Standard #7	No specific data.
		LC/MS Pesticide Standard #8	No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	:	LC/MS Pesticide Standard #1	May cause damage to organs through prolonged or repeated exposure.
		LC/MS Pesticide Standard #2	May cause damage to organs through prolonged or repeated exposure.
		LC/MS Pesticide Standard #3	May cause damage to organs through prolonged or repeated exposure.
		LC/MS Pesticide Standard #4	May cause damage to organs through prolonged or repeated exposure.
		LC/MS Pesticide Standard #5	May cause damage to organs through prolonged or repeated exposure.
		LC/MS Pesticide Standard #6	May cause damage to organs through prolonged or repeated exposure.
		LC/MS Pesticide Standard #7	May cause damage to organs through prolonged or repeated exposure.
		LC/MS Pesticide Standard #8	May cause damage to organs through prolonged or repeated exposure.

Section 11. Toxicological information

Carcinogenicity	:	LC/MS Pesticide Standard #1	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #2	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #3	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #4	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #5	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #6	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #7	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #8	No known significant effects or critical hazards.
Mutagenicity	:	LC/MS Pesticide Standard #1	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #2	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #3	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #4	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #5	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #6	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #7	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #8	No known significant effects or critical hazards.
Teratogenicity	:	LC/MS Pesticide Standard #1	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #2	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #3	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #4	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #5	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #6	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #7	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #8	No known significant effects or critical hazards.
Developmental effects	:	LC/MS Pesticide Standard #1	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #2	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #3	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #4	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #5	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #6	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #7	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #8	No known significant effects or critical hazards.
Fertility effects	:	LC/MS Pesticide Standard #1	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #2	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #3	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #4	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #5	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #6	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #7	No known significant effects or critical hazards.
		LC/MS Pesticide Standard #8	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
LC/MS Pesticide Standard #1	
Oral	501.5 mg/kg
Dermal	1103.3 mg/kg
Inhalation (vapors)	11.03 mg/l
LC/MS Pesticide Standard #2	
Oral	501.8 mg/kg
Dermal	1103.9 mg/kg
Inhalation (vapors)	11.04 mg/l
LC/MS Pesticide Standard #3	
Oral	502.5 mg/kg

Section 11. Toxicological information

Dermal	1105.6 mg/kg
Inhalation (vapors)	11.06 mg/l
LC/MS Pesticide Standard #4	
Oral	502.9 mg/kg
Dermal	1106.3 mg/kg
Inhalation (vapors)	11.06 mg/l
LC/MS Pesticide Standard #5	
Oral	501.8 mg/kg
Dermal	1104 mg/kg
Inhalation (vapors)	11.04 mg/l
LC/MS Pesticide Standard #6	
Oral	501.2 mg/kg
Dermal	1102.7 mg/kg
Inhalation (vapors)	11.03 mg/l
LC/MS Pesticide Standard #7	
Oral	501.7 mg/kg
Dermal	1103.8 mg/kg
Inhalation (vapors)	11.04 mg/l
LC/MS Pesticide Standard #8	
Oral	501.1 mg/kg
Dermal	1102.4 mg/kg
Inhalation (vapors)	11.02 mg/l

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
LC/MS Pesticide Standard #1			
Acetonitrile	Acute IC50 3685000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 3600000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 1000000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 160000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Methamidophos (ISO)	Acute EC50 0.3 mg/l Fresh water	Algae - Nitzschia sp. - Exponential growth phase	96 hours
	Acute EC50 0.026 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.00028 µg/l Marine water	Crustaceans - Macrobrachium rosenbergii - Zoea	48 hours
	Acute LC50 1.28 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 4.49 ppb	Daphnia - Daphnia magna	21 days
Azinphos-ethyl (ISO)	Acute EC50 4 µg/l Fresh water	Crustaceans - Simocephalus serrulatus	48 hours
	Chronic NOEC 1 mg/l Marine water	Algae - Tetraselmis suecica - Exponential growth phase	96 hours
Fenamiphos (ISO)	Acute EC50 38.49 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	96 hours
	Acute EC50 1.3 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 150 ppb Marine water	Crustaceans - Penaeus	48 hours

Section 12. Ecological information

		duorarum - Juvenile (Fledgling, Hatchling, Weanling)	
	Acute LC50 4.5 ppb Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 0.12 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 3.8 ppb	Fish - Oncorhynchus mykiss	91 days
Diflufenican (ISO)	Acute EC50 1.2 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
Disulfoton (ISO)	Acute EC50 11 mg/l Fresh water	Algae - Scenedesmus subspicatus	72 hours
	Acute EC50 25 µg/l Marine water	Crustaceans - Penaeus aztecus - Adult	48 hours
	Acute EC50 11 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 8.2 ppb Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 1 mg/l Marine water	Algae - Tetraselmis suecica	96 hours
	Chronic NOEC 0.037 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 16.2 ppb	Fish - Cyprinodon variegatus	33 days
4H-1,3,5-Thiadiazin-4-one, 2-[(1,1-dimethylethyl)imino] tetrahydro-3-(1-methylethyl) -5-phenyl-	Acute EC50 2.94 ppm Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 0.42 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.26 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.08 ppm	Daphnia - Daphnia magna	21 days
	Chronic NOEC 8.4 ppb Fresh water	Fish - Pimephales promelas	276 days
Dimoxystrobin (ISO)	Acute LC50 0.039 mg/l Fresh water	Fish - Cyprinus carpio - Young of the year	96 hours
Benzamide, 2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl) -2-pyridinyl]methyl]-	Acute EC50 51 ppb Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 1700 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 349 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 151 ppb	Fish - Pimephales promelas	33 days
4(3H)-Quinazolinone, 6-iodo-2-propoxy-3-propyl-	LC50 0.287 mg/l	Daphnia	48 hours
Butanoic acid, 2,2-dimethyl-, 3-(2,4-dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl ester	Acute LC50 >450000 ppb Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 11.1 ppb	Daphnia - Daphnia magna	21 days
	Chronic NOEC 1.95 ppb	Fish - Oncorhynchus mykiss	97 days
Spiroxamine (ISO)	Acute EC50 1.18 ppb Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 2.57 ppb Fresh water	Algae - Scenedesmus subspicatus	72 hours
	Acute EC50 2.55 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Chronic NOEC 0.034 ppm	Daphnia - Daphnia magna	21 days
	Chronic NOEC 2.6 ppb Fresh water	Fish - Danio rerio	230 days
Azinphos-methyl (ISO)	Acute EC50 1.13 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.25 µg/l Fresh water	Crustaceans - Gammarus lacustris	48 hours
	Acute LC50 0.36 ppb Fresh water	Fish - Esox lucius	96 hours
	Chronic EC10 0.033 µg/l Fresh water	Crustaceans - Cladocera	21 days
	Chronic NOEC 10 mg/l Marine water	Algae - Tetraselmis suecica - Exponential growth phase	96 hours
	Chronic NOEC 0.25 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.17 µg/l Marine water	Fish - Cyprinodon variegatus - Embryo	28 days
Acephate (ISO)	Acute EC50 1.3 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.7 mg/l Marine water	Crustaceans - Homarus americanus - Larvae	48 hours

Section 12. Ecological information

	Acute LC50 1.46 µg/l Fresh water	Fish - Clarias batrachus	96 hours
	Chronic NOEC 580 µg/l Marine water	Crustaceans - Americamysis bahia	21 days
	Chronic NOEC 150 ppb Fresh water	Daphnia - Daphnia magna	21 days
LC/MS Pesticide Standard #2			
Acetonitrile	Acute IC50 3685000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 3600000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 1000000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 160000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Chlorfenvinphos (ISO)	Acute LC50 0.4 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 100 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 39 µg/l Fresh water	Fish - Oreochromis niloticus	96 hours
Chlorpyrifos-methyl	Acute EC50 0.000028 ppm Marine water	Crustaceans - Penaeus duorarum - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute EC50 1.11 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 12.6 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
Propiconazole (ISO)	Acute EC50 0.8 µg/l Fresh water	Algae - Chlamydomonas noctigama	3 days
	Acute EC50 1.29 mg/l Fresh water	Algae - Chlorella vulgaris	96 hours
	Acute EC50 3.2 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.763 mg/l Marine water	Crustaceans - Palaemon adspersus - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 0.83 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic IC10 6.8 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 0.31 ppm Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.18 µg/l Fresh water	Fish - Oncorhynchus mykiss	30 days
Fenarimol (ISO)	Acute EC50 7.9 ppm Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 2.6 ppm Fresh water	Algae - Scenedesmus subspicatus	96 hours
	Acute EC50 6.8 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5.213 µg/l Fresh water	Crustaceans - Paratya australiensis	48 hours
	Acute LC50 0.9 ppm Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 0.113 ppm Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.43 ppm	Fish - Oncorhynchus mykiss	69 days
Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3, 3-trifluoro-1-propen-1-yl]-2, 2-dimethyl-, (2-methyl[1,1'-biphenyl]-3-yl)methyl ester, (1R,3R)-rel-	Acute LC50 0.07 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 0.32 µg/l Fresh water	Daphnia - Daphnia magna - Instar	48 hours
	Acute LC50 0.15 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.0013 ppb Fresh water	Daphnia - Daphnia magna	21 days
Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2, 4-triazol-1-ylmethyl)-	Acute EC50 1.7 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1.53 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.18 ppb	Fish - Pimephales promelas	32 days
S-[(6-chloro-2-oxooxazolo[4,	Acute LC50 0.61 µg/l Marine water	Crustaceans - Homarus	48 hours

Section 12. Ecological information

5-b]pyridin-3(2H)-yl)methyl] O, O-dimethyl thiophosphate		americanus - Intermolt	
Diazinon (ISO)	Acute EC50 10.82 mg/l Fresh water	Algae - Chlorella pyrenoidosa	96 hours
	Acute EC50 0.522 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.21 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 0.000072 mg/l Fresh water	Fish - Cyprinus carpio	96 hours
	Chronic NOEC 0.17 mg/l Fresh water	Algae - Chlorella vulgaris - Exponential growth phase	96 hours
	Chronic NOEC 6.43 µg/l Fresh water	Aquatic plants - Oryza sativa - Seed	4 days
	Chronic NOEC 0.15 µg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	21 days
	Chronic NOEC 0.018 ppb Fresh water	Fish - Cyprinus carpio	30 days
Dichlorvos (ISO)	Acute EC50 0.066 ppb Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute IC50 110000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute IC50 398000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 0.13 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 2.5 µg/l Fresh water	Fish - Mystus vittatus	96 hours
	Chronic NOEC 239000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 6.66 µg/l Marine water	Crustaceans - Americamysis bahia - Juvenile (Fledgling, Hatchling, Weanling)	21 days
	Chronic NOEC 0.109 to 0.266 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 5.2 ppb	Fish - Oncorhynchus mykiss	61 days
Ethion (ISO)	Acute EC50 0.056 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 2.4 ppb Marine water	Crustaceans - Penaeus aztecus	48 hours
	Acute LC50 49 ppb Marine water	Fish - Menidia menidia	96 hours
	Chronic NOEC 0.025 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 13 ppb	Fish - Pimephales promelas	33 days
BROMUCONAZOLE	Acute EC50 0.085 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1.7 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.006 ppm Fresh water	Daphnia - Daphnia magna	21 days
Coumaphos (ISO)	Acute EC50 0.192 ppb Fresh water	Daphnia - Daphnia magna - Adult	48 hours
	Acute LC50 0.14 µg/l Fresh water	Crustaceans - Gammarus lacustris	48 hours
	Acute LC50 150 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 0.034 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 11.7 ppb	Fish - Oncorhynchus mykiss	62 days
Chlorpyrifos (ISO)	Acute EC50 138 µg/l Marine water	Algae - Isochrysis galbana	96 hours
	Acute EC50 32.4 ng/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 0.048 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 0.4 µg/l Marine water	Fish - Menidia peninsulae	96 hours
	Chronic NOEC 400 µg/l Marine water	Algae - Dunaliella tertiolecta - Exponential growth phase	96 hours
	Chronic NOEC 0.01 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 0.21 ppb Fresh water	Fish - Clarias batrachus	30 days
Ethoprophos (ISO)	Acute EC50 3800 µg/l Marine water	Algae - Skeletonema costatum - Exponential growth phase	96 hours
	Acute EC50 42.8 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 6.3 µg/l Marine water	Fish - Lagodon rhomboides	96 hours

Section 12. Ecological information

	Chronic NOEC 0.36 µg/l Marine water	Crustaceans - Americamysis bahia	21 days
	Chronic NOEC 0.8 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 2 ppb Marine water	Fish - Cyprinodon variegatus	112 days
epoxiconazole (ISO)	Acute EC50 2.63 µg/l Marine water	Algae - Chaetoceros calcitrans - Exponential growth phase	3 days
	Chronic NOEC 0.7 µg/l Marine water	Algae - Chaetoceros calcitrans - Exponential growth phase	3 days
LC/MS Pesticide Standard #3			
Acetonitrile	Acute IC50 3685000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 3600000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 1000000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 160000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
S-tert-Butylthiomethyl O,O-diethylphosphorodithioate	Acute EC50 0.59 mg/l Fresh water	Algae - Nitzschia sp. - Exponential growth phase	96 hours
	Acute EC50 0.121 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute EC50 0.31 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.77 ppb Fresh water	Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 10 µg/l Fresh water	Algae - Algae	4 days
	Chronic NOEC 0.03 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.64 ppb	Fish - Oncorhynchus mykiss	95 days
Succinic acid, mercapto-, diethyl ester, S-ester with O, O-dimethylphosphorothioate	Acute IC50 2.3 ppm Fresh water	Fish - Ictalurus furcatus - Fingerling	96 hours
	Acute LC50 12.08 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
Pirimicarb (ISO)	Acute EC50 120 ppm Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 0.0065 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 29 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.0009 ppm Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 4.4 ppm	Fish - Pimephales promelas	36 days
Pirimiphos-methyl (ISO)	Acute EC50 0.11 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 2.271 µg/l Marine water	Crustaceans - Siriella armata - Neonate	48 hours
	Acute LC50 3.47 µg/l Fresh water	Fish - Oreochromis niloticus - Fingerling	96 hours
Quinalphos (ISO)	Acute LC50 0.124 µg/l Marine water	Crustaceans - Penaeus monodon - Mysis	48 hours
	Acute LC50 70 µg/l Fresh water	Fish - Nuria danrica - Adult	96 hours
Profenofos (ISO)	Acute EC50 0.93 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.041 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 2.31 ppb Fresh water	Fish - Channa punctata	96 hours
	Chronic NOEC 2 ppb	Fish - Pimephales promelas	31 days
Phosphamidon	Acute EC50 12.7 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.00007 ul/L Fresh water	Crustaceans - Moina sp. - Adult	48 hours
	Acute LC50 110 µg/l Fresh water	Fish - Gambusia affinis	96 hours
	Chronic NOEC 1.5 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 1.1 ppm	Fish - Oncorhynchus mykiss	60 days
Phenthoate (ISO)	Acute LC50 24 ppb Marine water	Crustaceans - Penaeus duorarum - Adult	48 hours
	Acute LC50 1.7 µg/l Fresh water	Daphnia - Daphnia carinata	48 hours

Section 12. Ecological information

	Acute LC50 3.3 ppb Fresh water	Fish - Lepomis macrochirus - Adult	96 hours
Methidathion (ISO)	Acute EC50 7.5038 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 6.4 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 14 µg/l Marine water	Crustaceans - Homarus americanus	48 hours
	Acute LC50 2.2 ppb Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 0.5 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 0.5 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 6.3 ppb	Fish - Pimephales promelas	35 days
Trans-isopropyl-3-[[(ethylamino) methoxyfosfinothioyl]oxy] crotonate	Acute EC50 9.5 mg/l Fresh water	Algae - Scenedesmus subspicatus	72 hours
	Acute EC50 27 µg/l Fresh water	Crustaceans - Gammarus roeseli	48 hours
	Acute EC50 3.3 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.19 ppm Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic EC10 1.9 mg/l Fresh water	Algae - Scenedesmus subspicatus	72 hours
	Chronic NOEC 0.1 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Dichloro-N-[(dimethylamino) sulphonyl]fluoro-N-(p-tolyl) methanesulphenamide liquid	Acute EC50 0.19 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.03 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.1 ppm	Daphnia - Daphnia magna	21 days
1H-1,2,4-Triazole, 1-[[2-[2-chloro-4-(4-chlorophenoxy) phenyl]-4-methyl-1,3-dioxolan-2-yl]methyl]-	Acute EC50 1.338 µg/l Fresh water	Algae - Scenedesmus acutus var. acutus	96 hours
	Acute LC50 0.298 µg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 1.329 µg/l Fresh water	Fish - Danio rerio	96 hours
	Chronic NOEC 0.005 ppm Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 1.9 ppb Fresh water	Fish - Pimephales promelas	268 days
quinoxyfen (ISO)	Acute EC50 91 ppb Fresh water	Daphnia - Daphnia magna - Instar	48 hours
	Acute LC50 270 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 27.8 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 4.09 ppb	Fish - Cyprinodon variegatus	39 days
2-Cyclohexen-1-one, 2-[(1E)-1-[[[(2E)-3-chloro-2-propen-1-yl]oxy]imino]propyl]-5-[2-(ethylthio)propyl]-3-hydroxy-	Acute EC50 22.8676 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 20.2 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 19 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.94 ppm	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.01 ppm	Fish - Pimephales promelas	32 days
Malathion (ISO)	Acute EC50 0.5 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 0.9 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 11.676 ng/L Fresh water	Fish - Heteropneustes fossilis	96 hours
	Chronic NOEC 34 mg/l Fresh water	Algae - Euglena gracilis	72 hours
	Chronic NOEC 0.5 mg/l Marine water	Crustaceans - Scylla serrata	3 weeks
	Chronic NOEC 0.06 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 21 ppb	Fish - Oncorhynchus mykiss	97 days
2-Chloro-2'-ethyl-N-	Acute EC50 50.9 µg/l Fresh water	Algae - Pseudokirchneriella	96 hours

Section 12. Ecological information

(2-methoxy-1-methylethyl)-6'-methylacetanilide		subcapitata	
	Acute EC50 343 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute EC50 1100 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute EC50 4.25 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 37.17 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute LC50 3.9 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic EC10 11 µg/l Fresh water	Algae - Achnanthidium minutissimum	96 hours
	Chronic NOEC 187 µg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Chronic NOEC 0.354 ppm Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.78 ppm	Fish - Pimephales promelas	35 days
Oxadiazon (ISO)	Acute EC50 56 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 0.53 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 15.4 ppm Fresh water	Crustaceans - Orconectes nais - Adult	48 hours
	Acute LC50 0.88 ppm Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 7 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 0.03 ppm Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.88 ppb	Fish - Oncorhynchus mykiss	97 days
N-(1-Ethylpropyl)-2,6-dinitro-3,4-xylidine	Acute EC50 14 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 0.1793 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 0.28 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 76 mg/l Marine water	Crustaceans - Artemia franciscana - Nauplii	48 hours
	Acute LC50 0.138 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 6 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 0.014 ppm Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 119 ng/L Fresh water	Fish - Oncorhynchus mykiss	28 days
Mecarbam (ISO)	Acute LC50 0.004 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours
Triazophos (ISO)	Acute EC50 12.92 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute EC50 0.007 mg/l Fresh water	Fish - Cyprinus carpio	96 hours
	Chronic NOEC 0.094 µg/l Fresh water	Daphnia - Daphnia magna	21 days
1H-Pyrazole-5-carboxamide, 4-chloro-N-[[4-(1, 1-dimethylethyl)phenyl]methyl] -3-ethyl-1-methyl-	Acute EC50 40.2 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 17.8 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
Mevinphos (ISO)	Acute EC50 0.16 µg/l Fresh water	Daphnia - Daphnia pulex - Larvae	48 hours
	Acute LC50 0.95 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 41.77 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
Phosalone	Acute EC50 0.83 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute EC50 1200 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 474.4 µg/l Marine water	Crustaceans - Scylla serrata - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 50 ppb Fresh water	Fish - Lepomis macrochirus	96 hours

Section 12. Ecological information

LC/MS Pesticide Standard #4			
Acetonitrile	Acute IC50 3685000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 3600000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 1000000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 160000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Monocrotophos (ISO)	Acute EC50 69 µg/l Marine water	Crustaceans - Penaeus aztecus - Adult	48 hours
	Acute LC50 388 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 3.8 µg/l Fresh water	Fish - Cyprinus carpio	96 hours
	Chronic NOEC 0.96 mg/l Fresh water	Fish - Channa punctata	60 days
fipronil (ISO)	Acute EC50 631.2 µg/l Marine water	Algae - Dunaliella tertiolecta - Exponential growth phase	96 hours
	Acute EC50 0.54 mg/l Fresh water	Algae - Scenedesmus acutus var. acutus - Exponential growth phase	72 hours
	Acute EC50 0.99 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute EC50 0.0348 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 83 ppb Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 250 µg/l Marine water	Algae - Dunaliella tertiolecta - Exponential growth phase	96 hours
	Chronic NOEC 13 µg/l Fresh water	Aquatic plants - Oryza sativa - Seed	4 days
	Chronic NOEC 0.16 µg/l Marine water	Crustaceans - Amphiascus tenuiremis - Copepodite	21 days
	Chronic NOEC 9.6 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.05 µg/l Fresh water	Fish - Rhamdia quelen	60 days
N-[[(4-chlorophenyl)amino] carbonyl]-2, 6-difluorobenzamide	Acute EC50 >124 ppm Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 0.04 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 0.37 µg/l Marine water	Crustaceans - Artemia salina - Cyst	48 hours
	Acute LC50 32990 µg/l Marine water	Fish - Fundulus heteroclitus - Adult	96 hours
	Chronic NOEC 0.69 µg/l Marine water	Crustaceans - Callinectes sp. - Juvenile (Fledgling, Hatchling, Weanling)	21 days
	Chronic NOEC 1 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 16 ng/L Marine water	Fish - Gambusia affinis - Adult	28 days
Carfentrazone-ethyl (ISO)	Acute EC50 12.7 ppb Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute LC50 1.14 ppm Marine water	Fish - Menidia peninsulae	96 hours
	Chronic NOEC 22 ppb	Fish - Oncorhynchus mykiss	89 days
Kresoxim-methyl (ISO)	Acute EC50 55.1 ppb Fresh water	Algae - Pseudokirchneriella subcapitata	4 days
	Acute EC50 332 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 190 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 87 ppb	Fish - Pimephales promelas	28 days
Phoxim (ISO)	Acute EC50 1.979 mg/l Fresh water	Algae - Chlorella pyrenoidosa	96 hours
	Acute LC50 349 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.5 mg/l Fresh water	Algae - Chlorella pyrenoidosa	96 hours
famoxadone (ISO)	Acute EC50 11.8 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 12 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.085 ppb Fresh water	Daphnia - Daphnia magna	21 days

Section 12. Ecological information

	Chronic NOEC 1.4 ppb	Fish - Oncorhynchus mykiss	90 days
Chlorsulfuron (ISO)	Acute EC50 0.067 ppm Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 135 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 0.7 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute EC50 370 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 38 mg/l Fresh water	Fish - Salmo trutta	96 hours
	Chronic NOEC 63 µg/l Fresh water	Algae - Scenedesmus acutus	96 hours
	Chronic NOEC 20 ppm Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 31.4 ppm	Fish - Oncorhynchus mykiss	77 days
Linuron (ISO)	Acute EC50 6 µg/l Fresh water	Algae - Scenedesmus acutus	3 days
	Acute EC50 0.12 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.89 ppm Marine water	Fish - Cyprinodon variegatus	96 hours
	Chronic EC10 1.2 µg/l Fresh water	Algae - Scenedesmus acutus	3 days
	Chronic NOEC 4.3 to 5.1 µg/l Fresh water	Crustaceans - Crustacea	21 days
	Chronic NOEC 0.13 ppm Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 1 µg/l Fresh water	Fish - Pimephales promelas - Adult	28 days
Metribuzin (ISO)	Acute EC50 23 µg/l Fresh water	Algae - Chlamydomonas reinhardtii	96 hours
	Acute EC50 22.5 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 36 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute EC50 4.18 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 35.36 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 3400 µg/l Fresh water	Fish - Ictalurus punctatus - Fingerling	96 hours
	Chronic NOEC 19 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 19 µg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Chronic NOEC 18 µg/l Fresh water	Crustaceans - Macrocyclops sp.	21 days
	Chronic NOEC 1.29 ppm Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.9 mg/l Fresh water	Fish - Cyprinus carpio - Embryo	30 days
Methyl 2-(3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl) 3-methylureidosulphonyl) benzoate	Acute LC50 132 ppm Marine water	Fish - Cyprinodon variegatus	96 hours
	Chronic NOEC 28 ppm	Daphnia - Daphnia magna	21 days
	Chronic NOEC 11.8 ppm	Fish - Oncorhynchus mykiss	96 days
Metsulfuron-methyl	Acute EC50 597 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 130 ppb Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 0.4 to 0.6 µg/l Fresh water	Aquatic plants - Lemna minor	3 days
	Acute EC50 0.4 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute EC50 >150 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 100000 to 1000000 µg/l Fresh water	Fish - Clarias batrachus	96 hours
	Chronic EC10 106 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 0.002 mg/l Fresh water	Fish - Leporinus obtusidens	30 days
Cyazofamid (ISO)	Acute EC50 0.043 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 680 ppb Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 158 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 3.32 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours

Section 12. Ecological information

	Chronic NOEC 0.12 ppm Fresh water	Algae - Navicula pelliculosa	96 hours
	Chronic NOEC 0.011 ppm Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 90.1 ppb	Fish - Pimephales promelas	33 days
Flazasulfuron (ISO)	Acute EC50 1.29 ppb Fresh water	Algae - Pseudokirchneriella subcapitata	3 days
	Acute EC50 4.1 ppb Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 >106 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 115 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 17 ppm	Fish - Oncorhynchus mykiss	89 days
hexythiazox (ISO)	Acute EC50 0.742 ppm Fresh water	Daphnia - Daphnia carinata	48 hours
	Acute LC50 0.53 ppm Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 6.1 ppb Fresh water	Daphnia - Daphnia magna	21 days
Hydrazinecarboxamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl] ethylidene]-N-[4-(trifluoromethoxy)phenyl]-	Acute EC50 2.56 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.732 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 1.47 ppb	Daphnia - Daphnia magna	21 days
	Chronic NOEC 1.15 ppb	Fish - Cyprinodon variegatus	41 days
Benzamide, N-[[[3-chloro-4-[1,1,2-trifluoro-2-(trifluoromethoxy)ethoxy] phenyl]amino]carbonyl]-2,6-difluoro-	Acute EC50 32000 ppb Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 4.31 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 62400 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.0299 ppb	Daphnia - Daphnia magna	21 days
Aminocarb (ISO)	Acute EC50 5 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 29 µg/l Fresh water	Crustaceans - Gammarus lacustris	48 hours
	Acute LC50 80 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 38.9 µg/l Fresh water	Fish - Pimephales promelas - Embryo	31 days
3,6-Bis(o-chlorophenyl)-1,2,4,5-tetrazine	Chronic NOEC 100 ppb	Daphnia - Daphnia magna	21 days
	Chronic NOEC 6 ppb	Fish - Oncorhynchus mykiss	97 days
Benzamide, N-[[(3,5-dichloro-2,4-difluorophenyl)amino] carbonyl]-2,6-difluoro-	Acute LC50 40 µg/l Marine water	Crustaceans - Tisbe battagliai - Nauplii	48 hours
Propargite (ISO)	Acute EC50 38.86 mg/l Fresh water	Algae - Scenedesmus acutus var. acutus	96 hours
	Acute EC50 74 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 31 ppb Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 2 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 9 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 16 ppb	Fish - Pimephales promelas	35 days
LC/MS Pesticide Standard #5			
Acetonitrile	Acute IC50 3685000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 3600000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 1000000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 160000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Aldicarb (ISO)	Acute EC50 51 µg/l Fresh water	Daphnia - Daphnia laevis - Mature	48 hours
	Acute LC50 413 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours

Section 12. Ecological information

	Acute LC50 41 µg/l Marine water	Fish - Cyprinodon variegatus	96 hours
	Chronic NOEC 1 µg/l Marine water	Crustaceans - Americamysis bahia	21 days
	Chronic NOEC 20 ppb Fresh water	Daphnia - Daphnia magna	21 days
fenobucarb (ISO)	Acute EC50 0.1716 mg/l Fresh water	Fish - Cyprinus carpio	96 hours
	Acute LC50 0.035 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Azoxystrobin	Acute IC50 230 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute LC50 0.071 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 470 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic IC10 32 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 44 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 147 ppb	Fish - Pimephales promelas	28 days
Dimethyl N,N'-[thiobis[(methylimino)carbonyloxy]]bis (thioimidoacetate)	Acute EC50 404 µg/l Marine water	Algae - Skeletonema costatum - Exponential growth phase	96 hours
	Acute EC50 0.027 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.47 ppm Marine water	Fish - Cyprinodon variegatus	96 hours
	Chronic NOEC 9 ppb	Daphnia - Daphnia magna	21 days
pyridaben (ISO)	Acute EC50 0.53 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.72 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.013 ppb Marine water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.277 ppb Fresh water	Fish - Pimephales promelas	300 days
Thiamethoxam (ISO)	Acute EC50 97 ppm Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 >106 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 23.505 mg/l Fresh water	Crustaceans - Gammarus kischineffensis	48 hours
	Acute LC50 >100 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 50 ppm Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 20 ppm	Fish - Oncorhynchus mykiss	45 days
2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy) pyridine	Acute EC50 56 ppb Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute LC50 80 µg/l Fresh water	Daphnia - Daphnia carinata - Neonate	48 hours
	Acute LC50 270 ppb Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 0.01 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 4.3 ppb	Fish - Oncorhynchus mykiss	95 days
Trifloxystrobin (ISO)	Acute EC50 0.0089 ppm Fresh water	Algae - Navicula pelliculosa	96 hours
	Acute EC50 25.3 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 120 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute LC50 14 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic IC10 5.7 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 2.76 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.1 µg/l Fresh water	Fish - Oryzias latipes - Embryo	28 days
Carbendazim (ISO)	Acute EC50 19.0562 mg/l Fresh water	Algae - Scenedesmus acutus var. acutus	96 hours
	Acute EC50 >100000 µg/l Marine water	Crustaceans - Cancer magister - Zoea	48 hours
	Acute EC50 20 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 7 µg/l Fresh water	Fish - Ictalurus punctatus - Yolk-sac fry	96 hours
	Chronic NOEC 33.5 to 36 µg/l Fresh water	Crustaceans - Crustacea	21 days
	Chronic NOEC 3.1 ppb Fresh water	Daphnia - Daphnia magna	21 days

Section 12. Ecological information

Methabenzthiazuron (ISO)	Acute EC50 0.0209 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
fenamidone (ISO)	Acute EC50 48.7 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.74 ppm Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 0.0125 ppm Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.041 ppm	Fish - Pimephales promelas	36 days
fenazaquin (ISO)	Acute EC50 39 ppm Fresh water	Algae - Scenedesmus subspicatus	96 hours
	Acute EC50 5.6 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 3.9 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.34 ppb	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.95 ppb	Fish - Oncorhynchus mykiss	63 days
Pyraclostrobin	Acute EC50 152 ppb Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 15.7 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 1400 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute LC50 6.2 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic IC10 250 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 4 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 2.35 ppb	Fish - Oncorhynchus mykiss	98 days
Cyanamide, N-[3-[(6-chloro-3-pyridinyl)methyl] -2-thiazolidinylidene]-, [N(Z)]-	Acute EC50 45 ppm Fresh water	Algae - Scenedesmus subspicatus	72 hours
	Acute EC50 22.52 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 19.7 ppm Marine water	Fish - Cyprinodon variegatus	96 hours
	Chronic NOEC 0.56 ppm Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.17 ppm	Fish - Pimephales promelas	33 days
Diuron (ISO)	Acute EC50 2.26 µg/l Marine water	Algae - Coccolithus huxleyi - Exponential growth phase	72 hours
	Acute EC50 0.0007 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 0.005 mg/l Fresh water	Aquatic plants - Lemna sp.	96 hours
	Acute EC50 8.4 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 2.41 µg/l Marine water	Aquatic plants - Halodule uninervis	72 hours
	Acute LC50 380 µg/l Fresh water	Crustaceans - Gammarus lacustris	48 hours
	Acute LC50 500 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic EC10 0.11 µg/l Fresh water	Algae - Fragilaria capucina - Exponential growth phase	96 hours
	Chronic NOEC 0.34 µg/l Marine water	Aquatic plants - Zostera muelleri	72 hours
	Chronic NOEC 26.4 ppb	Fish - Pimephales promelas	60 days
Methomyl (ISO)	Acute EC50 50 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 2.11 µg/l Fresh water	Crustaceans - Ceriodaphnia reticulata - Neonate	48 hours
	Acute EC50 4.71 µg/l Fresh water	Daphnia - Daphnia longispina - New born	48 hours
	Acute LC50 100 µg/l Fresh water	Fish - Carassius auratus	96 hours
	Chronic NOEC 20 µg/l Fresh water	Crustaceans - Gammarus fossarum - Adult	21 days
	Chronic NOEC 0.4 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.2 µg/l Fresh water	Fish - Oreochromis niloticus	30 days
2-Imidazolidinimine, 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-, (2E)-	Acute EC50 1 µg/l Fresh water	Crustaceans - Cypretta seurati	48 hours
	Acute EC50 6029 µg/l Fresh water	Daphnia - Daphnia magna -	48 hours

Section 12. Ecological information

		Nauplii	
	Acute IC50 389 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute LC50 124 mg/l Fresh water	Fish - Acipenser transmontanus - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 10 ppm Fresh water	Algae - Scenedesmus subspicatus	4 days
	Chronic NOEC 11.12 to 11.42 µg/l Fresh water	Crustaceans - Gammarus sp.	21 days
	Chronic NOEC 0.625 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 9 mg/l Fresh water	Fish - Ctenopharyngodon idella	47 days
LC/MS Pesticide Standard #6			
Acetonitrile	Acute IC50 3685000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 3600000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 1000000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 160000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Trichlorfon (ISO)	Acute EC50 117.7 mg/dm3 Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 274.5 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	96 hours
	Acute IC50 0.052 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 8.6 µg/l Marine water	Crustaceans - Palaemonetes sp. - Adult	48 hours
	Acute LC50 20 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 300 mg/l Fresh water	Algae - Chlorella vulgaris - Exponential growth phase	96 hours
	Chronic NOEC 0.0056 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.01 mg/l Fresh water	Fish - Pangasianodon hypophthalmus - Juvenile (Fledgling, Hatchling, Weanling)	56 days
Omethoate (ISO)	Acute EC50 21 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1510 µg/l Marine water	Fish - Aphanius fasciatus	96 hours
Flumioxazin (ISO)	Acute EC50 5.5 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 2.3 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 26 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 7.7 ppb	Fish - Oncorhynchus mykiss	60 days
Carbaryl (ISO)	Acute EC50 0.0015 ppm Marine water	Crustaceans - Penaeus aztecus	48 hours
	Acute IC50 490 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute IC50 23900 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute IC50 0.019 mg/l Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Acute LC50 1.25 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Chronic NOEC 50 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 10 µg/l Fresh water	Crustaceans - Cladocera	3 weeks
	Chronic NOEC 0.2 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 445 µg/l Fresh water	Fish - Ptychocheilus lucius - Larvae	32 days
Propoxur (ISO)	Acute EC50 1.9244 mg/l Fresh water	Algae - Scenedesmus quadricauda	96 hours

Section 12. Ecological information

	Acute IC50 >198000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 40.21 µg/l Marine water	Crustaceans - Americamysis bahia - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 0.001 mg/l Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute LC50 1.3 ppm Fresh water	Fish - Ictalurus punctatus	96 hours
	Chronic NOEC 0.2 mg/l Fresh water	Algae - Chlorella vulgaris	96 hours
	Chronic NOEC 24600 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.023 ppm Fresh water	Daphnia - Daphnia magna	21 days
2,3-Dihydro-2,2-dimethyl-7-benzofuryl 2,4-dimethyl-6-oxa-5-oxo-3-thia-2,4-diazadecanoate	Acute EC50 0.0018 mg/l	Daphnia - Daphnia magna	48 hours
Butanoic acid, 3,3-dimethyl-, 2-oxo-3-(2,4,6-trimethylphenyl)-1-oxaspiro[4.4]non-3-en-4-yl ester	Acute EC50 17800 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 16.8 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.25 ppb	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.49 ppb	Fish - Oncorhynchus mykiss	97 days
Methanesulfonamide, N-[2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]phenyl]-	Acute EC50 89.6 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 26.1 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute EC50 60.4 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 93.8 ppm Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic EC10 64.6 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic EC10 9.2 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.2 ppm Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 2.95 ppm	Fish - Oncorhynchus mykiss	99 days
Zoxamide (ISO)	Acute EC50 0.01 ppm Fresh water	Algae - Scenedesmus subspicatus	96 hours
	Acute EC50 0.78 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.156 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.039 ppm Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 3.48 ppb	Fish - Oncorhynchus mykiss	31 days
phosmet (ISO)	Acute LC50 2.4 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute LC50 0.042 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 58 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 0.78 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 3.2 ppb	Fish - Oncorhynchus mykiss	60 days
LC/MS Pesticide Standard #7			
Acetonitrile	Acute IC50 3685000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 3600000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 1000000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 160000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Mercaptodimethur (ISO)	Acute EC50 55 µg/l Marine water	Crustaceans - Penaeus duorarum - Adult	48 hours
	Acute EC50 19 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.051 ppm Marine water	Fish - Menidia menidia - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 0.1 ppb Fresh water	Daphnia - Daphnia magna	21 days

Section 12. Ecological information

	Chronic NOEC 50 ppb	Fish - Oncorhynchus mykiss	56 days
Avermectin B1	Acute EC50 7.3096 mg/l Fresh water	Algae - Scenedesmus acutus var. acutus	96 hours
	Acute EC50 4.4 mg/l Fresh water	Algae - Scenedesmus subspicatus	72 hours
	Acute EC50 0.00027 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 3.6 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic EC10 0.71 mg/l Fresh water	Algae - Scenedesmus subspicatus	72 hours
	Chronic NOEC 0.0047 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
5,5-Dimethyl-perhydro-pyrimidin-2-one α-(4-trifluoromethylstyryl)-α-(4-trifluoromethyl) cinnamylidenehydrazone	Acute EC50 0.24 µg/l Marine water	Algae - Skeletonema costatum	4 days
	Acute EC50 0.166 µg/l Marine water	Algae - Thalassiosira pseudonana	3 days
	Acute EC50 1.14 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.09 ppm Fresh water	Fish - Ictalurus punctatus	96 hours
1,2-Benzenedicarboxamide, N2-[1,1-dimethyl-2-(methylsulfonyl)ethyl]-3-iodo-N1-[2-methyl-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl]-	Acute EC50 1.26 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Chronic NOEC 0.38 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 60.5 ppb	Fish - Pimephales promelas	35 days
Ivermectin	Acute LC50 0.026 µg/l Marine water	Crustaceans - Neomysis integer	48 hours
	Acute LC50 1.2 ng/L Fresh water	Daphnia - Daphnia magna - Young	48 hours
	Acute LC50 17.21 µg/l Fresh water	Fish - Danio rerio - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 391 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 0.0003 ng/L Fresh water	Daphnia - Daphnia magna - Young	21 days
Chlorotoluron (ISO)	Acute EC50 0.0085 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute LC50 35000 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 10 µg/l Fresh water	Algae - Chlorella pyrenoidosa - Exponential growth phase	96 hours
Mexacarbate (ISO)	Acute EC50 5.2 µg/l Marine water	Crustaceans - Penaeus aztecus - Adult	48 hours
	Acute EC50 41 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 597 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
1-(3,5-Dichloro-4-(1,1,2,2-tetrafluoroethoxy)phenyl)-3-(2,6-difluorobenzoyl)urea	Acute EC50 0.111 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Chronic NOEC 0.001 ppb Fresh water	Daphnia - Daphnia magna	21 days
Temephos	Acute EC50 2.8 µg/l Marine water	Crustaceans - Penaeus aztecus - Adult	48 hours
	Acute EC50 0.011 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 40 µg/l Marine water	Fish - Fundulus heteroclitus - Adult	96 hours
(2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo[2,3-h]chromen-6-one	Acute EC50 190 µg/l Fresh water	Crustaceans - Simocephalus serrulatus - Larvae	48 hours
	Acute EC50 3.7 µg/l Fresh water	Daphnia - Daphnia magna	48 hours

Section 12. Ecological information

	Acute LC50 1.9 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.3 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 1.01 ppb	Fish - Oncorhynchus mykiss	32 days
tebuthiuron (ISO)	Acute EC50 0.102 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 297 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 275 µg/l Fresh water	Algae - Chlorella sp. - Exponential growth phase	72 hours
	Acute IC50 29.1 µg/l Marine water	Aquatic plants - Zostera muelleri	72 hours
	Acute IC50 174 µg/l Fresh water	Aquatic plants - Lemna aequinoctialis	96 hours
	Acute LC50 106 ppm Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 92 µg/l Fresh water	Algae - Chlorella sp. - Exponential growth phase	72 hours
	Chronic NOEC 3 µg/l Marine water	Aquatic plants - Zostera muelleri	72 hours
	Chronic NOEC 21800 µg/l Fresh water	Daphnia - Daphnia magna - Instar	21 days
	Chronic NOEC 9300 µg/l Fresh water	Fish - Pimephales promelas - Egg	33 days
LC/MS Pesticide Standard #8			
Acetonitrile	Acute IC50 3685000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 3600000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 1000000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 160000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
4-Cyclopropyl-6-methyl-n-phenyl-2-pyrimidinamin	Acute EC50 32 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1.25 ppm Marine water	Fish - Cyprinodon variegatus	96 hours
	Chronic NOEC 0.0082 ppm	Daphnia - Daphnia magna	21 days
Dimethoate (ISO)	Acute EC50 9 µg/l Marine water	Algae - Phaeodactylum tricornutum	96 hours
	Acute EC50 5500 µg/l Fresh water	Algae - Chlamydomonas noctigama	3 days
	Acute EC50 560 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 102.7 µg/l Fresh water	Crustaceans - Macrobrachium rosenbergii - Post-larvae	48 hours
	Acute LC50 2.3 µg/l Fresh water	Fish - Mugilidae - Fry	96 hours
	Chronic NOEC 0.04 ppm Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.0735 mg/l Fresh water	Fish - Oncorhynchus mykiss - Adult	30 days
[1,2,4]Triazolo[1,5-a] pyrimidine-2-sulfonamide, N-(2,6-difluorophenyl)-5-methyl-	Acute EC50 10.6847 mg/l Fresh water	Algae - Chlorella vulgaris	96 hours
	Acute EC50 254 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 >293 ppm Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 111 ppm Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 197 ppm	Fish - Pimephales promelas	32 days
2-Pyridinamine, 3-chloro-N-[3-chloro-2,6-dinitro-4-(trifluoromethyl)phenyl]-5-(trifluoromethyl)-	Acute EC50 0.02 mg/l Fresh water	Algae - Chlorella pyrenoidosa	96 hours
	Acute EC50 115 µg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 180 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 36 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.0005 mg/l Fresh water	Algae - Chlorella pyrenoidosa	96 hours
	Chronic NOEC 68 ppb	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.69 ppb Fresh water	Fish - Pimephales promelas	278 days

Section 12. Ecological information

1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino) carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-	Acute EC50 0.0071 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.0351 ppm Fresh water	Crustaceans - Gammarus pseudolimnaeus	48 hours
Carbofuran (ISO)	Acute EC50 2.6 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 0.018 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute IC50 1980 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute IC50 236000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1.592 µg/l Fresh water	Crustaceans - Paratelphusa jacquemontii - Intermolt	48 hours
	Acute LC50 33 ppb Marine water	Fish - Menidia menidia	96 hours
	Chronic NOEC 0.2 mg/l Fresh water	Algae - Scenedesmus acutus var. acutus	96 hours
	Chronic NOEC 171000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 9.8 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 2.6 ppb	Fish - Cyprinodon variegatus	32 days

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
LC/MS Pesticide Standard #4				
Propargite (ISO)	OECD 301B Ready Biodegradability - CO_2 Evolution Test	74.4 % - 28 days	-	-
LC/MS Pesticide Standard #5				
Diuron (ISO)	OECD 301F Ready Biodegradability - Manometric Respirometry Test	0 % - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
LC/MS Pesticide Standard #1			
Acetonitrile	-	-	Readily
LC/MS Pesticide Standard #2			
Acetonitrile	-	-	Readily
Diazinon (ISO)	Fresh water 78 days, pH 7, 20°C	-	Not readily
LC/MS Pesticide Standard #3			
Acetonitrile	-	-	Readily

Section 12. Ecological information

LC/MS Pesticide Standard #4			
Acetonitrile	-	-	Readily
Propargite (ISO)	-	-	Readily
LC/MS Pesticide Standard #5			
Acetonitrile	-	-	Readily
Diuron (ISO)	-	-	Not readily
LC/MS Pesticide Standard #6			
Acetonitrile	-	-	Readily
LC/MS Pesticide Standard #7			
Acetonitrile	-	-	Readily
LC/MS Pesticide Standard #8			
Acetonitrile	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
LC/MS Pesticide Standard #1			
Acetonitrile	-0.34	3	low
Methamidophos (ISO)	-0.8	-	low
Azinphos-ethyl (ISO)	3.4	-	low
Fenamiphos (ISO)	3.23	-	low
Diflufenican (ISO)	4.9	-	high
Disulfoton (ISO)	4.02	218.78	low
4H-1,3,5-Thiadiazin-4-one, 2-[(1,1-dimethylethyl)imino] tetrahydro-3-(1-methylethyl) -5-phenyl-	4.3	-	high
Dimoxystrobin (ISO)	3.59	-	low
Benzamide, 2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl) -2-pyridinyl]methyl]-	3.26	-	low
4(3H)-Quinazolinone, 6-iodo-2-propoxy-3-propyl-	5.5	-	high
Butanoic acid, 2,2-dimethyl-, 3-(2,4-dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl ester	5.8	-	high
Spiroxamine (ISO)	5.5	-	high
Azinphos-methyl (ISO)	2.75	-	low
Acephate (ISO)	-0.85	10	low
LC/MS Pesticide Standard #2			
Acetonitrile	-0.34	3	low
Chlorfenvinphos (ISO)	3.81	-	low
Chlorpyrifos-methyl	4.31	-	high
Propiconazole (ISO)	3.72	-	low

Section 12. Ecological information

Fenarimol (ISO)	3.6	-	low
Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3, 3-trifluoro-1-propen-1-yl]-2, 2-dimethyl-, (2-methyl[1,1'-biphenyl]-3-yl)methyl ester, (1R,3R)-rel-	6.6	-	high
Cyclopentanol, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2, 4-triazol-1-ylmethyl)-	4.21	-	high
S-[(6-chloro-2-oxooxazolo[4, 5-b]pyridin-3(2H)-yl)methyl] O, O-dimethyl thiophosphate	1.05	-	low
Diazinon (ISO)	3.81	70.79	low
Dichlorvos (ISO)	1.43	0.5	low
Ethion (ISO)	5.07	-	high
BROMUCONAZOLE	3.24	-	low
Coumaphos (ISO)	4.13	-	high
Chlorpyrifos (ISO)	4.96	1513.56	high
Ethoprophos (ISO)	3.59	-	low
epoxiconazole (ISO)	3.44	-	low
LC/MS Pesticide Standard #3			
Acetonitrile	-0.34	3	low
S-tert-Butylthiomethyl O,O-diethylphosphorodithioate	4.48	-	high
Succinic acid, mercapto-, diethyl ester, S-ester with O, O-dimethylphosphorothioate	-	1.12	low
Pirimicarb (ISO)	1.7	-	low
Pirimiphos-methyl (ISO)	4.2	-	high
Quinalphos (ISO)	4.44	-	high
Profenofos (ISO)	4.2	60	low
Phosphamidon	0.79	-	low
Phenthoate (ISO)	3.69	48.98	low
Methidathion (ISO)	2.2	5.5	low
Trans-isopropyl-3-[[(ethylamino) methoxyfosfinothioyl]oxy] crotonate	3.82	-	low
1H-1,2,4-Triazole, 1-[[2-[2-chloro-4-(4-chlorophenoxy) phenyl]-4-methyl-1,3-dioxolan-2-yl]methyl]-	4.3	-	high
quinoxyfen (ISO)	4.66	-	high
Malathion (ISO)	2.36	33.11	low
2-Chloro-2'-ethyl-N-(2-methoxy-1-methylethyl)-6'-methylacetanilide	3.13	-	low
Oxadiazon (ISO)	4.8	1202.26	high
N-(1-Ethylpropyl)-2,6-dinitro-3, 4-xylidine	5.2	-	high
2-Chloro-N-(2, 6-dimethylphenyl)-N-(1H-pyrazol-1-ylmethyl)acetamide	2.13	-	low
Triazophos (ISO)	3.34	-	low
1H-Pyrazole-5-carboxamide,	4.61	14.13	low

Section 12. Ecological information

4-chloro-N-[[4-(1, 1-dimethylethyl)phenyl]methyl] -3-ethyl-1-methyl-			
Mevinphos (ISO)	0.13	-	low
Phosalone	4.38	-	high
LC/MS Pesticide Standard #4			
Acetonitrile	-0.34	3	low
Monocrotophos (ISO)	-0.2	-	low
fipronil (ISO)	4	-	high
N-[[(4-chlorophenyl)amino] carbonyl]-2, 6-difluorobenzamide	3.88	158.49	low
Carfentrazone-ethyl (ISO)	3.36	-	low
Kresoxim-methyl (ISO)	3.4	-	low
Phoxim (ISO)	4.39	812.83	high
famoxadone (ISO)	4.65	-	high
Chlorsulfuron (ISO)	2	-	low
Benzamide, N-(((4-(2-chloro-4-(trifluoromethyl)phenoxy) -2-fluorophenyl)amino) carbonyl)-2,6-difluoro-	6.16	-	high
Linuron (ISO)	3.2	17.78	low
Metribuzin (ISO)	1.7	-	low
Methyl 2-(3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl) 3-methylureidosulphonyl) benzoate	-0.44	-	low
Metsulfuron-methyl	2.2	-	low
Cyazofamid (ISO)	3.2	-	low
Flazasulfuron (ISO)	1.08	-	low
hexythiazox (ISO)	5.57	-	high
Benzamide, N-[[[3-chloro-4-[1, 1,2-trifluoro-2-(trifluoromethoxy)ethoxy] phenyl]amino]carbonyl]-2, 6-difluoro-	5.27	-	high
3,5-Dithia-2, 4-diazahexanamide, N-(4, 6-dimethoxy-2-pyrimidinyl) -4-methyl-, 3,3,5,5-tetraoxide	1.63	-	low
Aminocarb (ISO)	1.9	-	low
3,6-Bis(o-chlorophenyl)-1,2,4, 5-tetrazine	3.1	-	low
Benzamide, N-[[(3,5-dichloro-2,4-difluorophenyl)amino] carbonyl]-2,6-difluoro-	4.56	-	high
Propargite (ISO)	5	-	high
LC/MS Pesticide Standard #5			
Acetonitrile	-0.34	3	low
Aldicarb (ISO)	1.13	-	low
fenobucarb (ISO)	2.78	25.7	low
Azoxystrobin	2.5	17	low
Dimethyl N,N'-[thiobis[(methylimino)carbonyloxy]]bis (thioimidoacetate)	1.7	-	low

Section 12. Ecological information

pyridaben (ISO)	6.37	-	high
Trifloxystrobin (ISO)	4.5	-	high
Carbendazim (ISO)	1.52	2.51	low
Methabenzthiazuron (ISO)	2.64	-	low
fenazaquin (ISO)	5.51	-	high
Pyraclostrobin	3.99	230	low
Diuron (ISO)	2.84	5.2	low
Methomyl (ISO)	0.6	-	low
2-Imidazolidinimine, 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-, (2E)-	0.57	-	low
LC/MS Pesticide Standard #6			
Acetonitrile	-0.34	3	low
Trichlorfon (ISO)	0.51	-	low
Omethoate (ISO)	-0.74	-	low
Flumioxazin (ISO)	2.55	-	low
Carbaryl (ISO)	2.36	8.91	low
Propoxur (ISO)	1.52	-	low
2,3-Dihydro-2,2-dimethyl-7-benzofuryl 2,4-dimethyl-6-oxa-5-oxo-3-thia-2,4-diazadecanoate	4.7	-	high
Methanesulfonamide, N-[2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]phenyl]-	0.99	-	low
Zoxamide (ISO)	3.76	-	low
phosmet (ISO)	2.78	1.82	low
LC/MS Pesticide Standard #7			
Acetonitrile	-0.34	3	low
Mercaptodimethur (ISO)	2.92	35	low
Spinosad (ISO) (reaction mass of spinosyn A and spinosyn D in ratios between 95:5 to 50:50)	4	-	high
5,5-Dimethyl-perhydro-pyrimidin-2-one α-(4-trifluoromethylstyryl)-α-(4-trifluoromethyl) cinnamylidenehydrazone	2.31	-	low
Chlorotoluron (ISO)	2.41	-	low
Mexacarbate (ISO)	2.56	26.3	low
1-(3,5-Dichloro-4-(1,1,2,2-tetrafluoroethoxy)phenyl)-3-(2,6-difluorobenzoyl)urea	5.68	-	high
Temephos	5.96	-	high
(2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo[2,3-h]chromen-6-one	4.1	25.7	low
tebuthiuron (ISO)	1.79	-	low
LC/MS Pesticide Standard #8			

Section 12. Ecological information

Acetonitrile	-0.34	3	low
4-Cyclopropyl-6-methyl-n-phenyl-2-pyrimidinamin	4	-	high
Dimethoate (ISO)	0.78	1.58	low
[1,2,4]Triazolo[1,5-a] pyrimidine-2-sulfonamide, N-(2,6-difluorophenyl)-5-methyl-	0.051 to 0.085	-	low
2-Pyridinamine, 3-chloro-N-[3-chloro-2,6-dinitro-4-(trifluoromethyl)phenyl]-5-(trifluoromethyl)-	4.01	-	high
Carbofuran (ISO)	2.32	-	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

12.5 Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
LC/MS Pesticide Standard #1			
Acetonitrile (I,T)	75-05-8	Listed	U003
LC/MS Pesticide Standard #2			
Acetonitrile (I,T)	75-05-8	Listed	U003
LC/MS Pesticide Standard #3			
Acetonitrile (I,T)	75-05-8	Listed	U003
LC/MS Pesticide Standard #4			
Acetonitrile (I,T)	75-05-8	Listed	U003
LC/MS Pesticide Standard #5			
Acetonitrile (I,T)	75-05-8	Listed	U003
LC/MS Pesticide Standard #6			
Acetonitrile (I,T)	75-05-8	Listed	U003

Section 13. Disposal considerations

LC/MS Pesticide Standard #7 Acetonitrile (I,T)	75-05-8	Listed	U003
LC/MS Pesticide Standard #8 Acetonitrile (I,T)	75-05-8	Listed	U003

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / IMDG / IATA : Not regulated.

Additional information

Remarks: De minimis quantities

DOT Classification : **Reportable quantity** 5018.1 lbs / 2278.2 kg. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal regulations :

TSCA 8(a) PAIR: Acetonitrile; Diuron (ISO)

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Water Act (CWA) 307: Acetonitrile

Clean Water Act (CWA) 311: Disulfoton (ISO); Azinphos-methyl (ISO); Carbofuran (ISO); Mercaptodimethur (ISO); Mexacarbate (ISO); Carbaryl (ISO); Trichlorfon (ISO); Diuron (ISO); Propargite (ISO); Malathion (ISO); Mevinphos (ISO); Diazinon (ISO); Dichlorvos (ISO); Ethion (ISO); Coumaphos (ISO); Chlorpyrifos (ISO)

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

Section 15. Regulatory information

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ (lbs)	SARA 302 TPQ (gallons)	SARA 304 RQ (lbs)	SARA 304 RQ (gallons)
LC/MS Pesticide Standard #1						
Methamidophos (ISO)	≤0.1	Yes.	100 / 10000	-	100	-
Azinphos-ethyl (ISO)	≤0.1	Yes.	100 / 10000	-	100	-
Fenamiphos (ISO)	≤0.1	Yes.	10 / 10000	-	10	-
Disulfoton (ISO)	≤0.1	Yes.	500	52.4	1	0.1
Azinphos-methyl (ISO)	<0.1	Yes.	10 / 10000	-	1	-
LC/MS Pesticide Standard #2						
Chlorfenvinphos (ISO)	≤0.1	Yes.	500	44.1	500	44.1
Dichlorvos (ISO)	<0.1	Yes.	1000	84.8	10	0.85
Ethion (ISO)	≤0.1	Yes.	1000	98.3	10	0.98
Coumaphos (ISO)	≤0.1	Yes.	100 / 10000	-	10	-
Ethoprophos (ISO)	<0.1	Yes.	1000	110	1000	110
LC/MS Pesticide Standard #3						
S-tert-Butylthiomethyl O,O-diethylphosphorodithioate	≤0.1	Yes.	100	10.9	100	10.9
Phosphamidon	≤0.1	Yes.	100	9.9	100	9.9
Methidathion (ISO)	≤0.1	Yes.	500 / 10000	-	500	-
Triazophos (ISO)	≤0.1	Yes.	500	-	500	-
Mevinphos (ISO)	≤0.1	Yes.	500	48	10	0.96
LC/MS Pesticide Standard #4						
Monocrotophos (ISO)	≤0.1	Yes.	10 / 10000	-	10	-
fuberidazole (ISO)	<0.1	Yes.	100 / 10000	-	100	-
LC/MS Pesticide Standard #5						
Aldicarb (ISO)	≤0.1	Yes.	100 / 10000	-	1	-
Oxamyl (ISO)	<0.1	Yes.	100 / 10000	-	100	-
thiofanox (ISO)	<0.1	Yes.	100 / 10000	-	100	-
Methomyl (ISO)	≤0.1	Yes.	500 / 10000	-	100	-
LC/MS Pesticide Standard #7						
Mercaptodimethur (ISO)	≤0.1	Yes.	500 / 10000	-	10	-
chloroxuron	<0.1	Yes.	500 / 10000	-	500	-
promecarb (ISO)	<0.1	Yes.	500 / 10000	-	1000	-
Mexacarbate (ISO)	≤0.1	Yes.	500 / 10000	-	1000	-
LC/MS Pesticide Standard #8						
Dimethoate (ISO)	≤0.056	Yes.	500 / 10000	-	10	-
Carbofuran (ISO)	≤0.056	Yes.	10 / 10000	-	10	-

SARA 304 RQ : 70175.4 lbs / 31859.6 kg

SARA 311/312

Section 15. Regulatory information

Classification :

LC/MS Pesticide Standard #1	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
LC/MS Pesticide Standard #2	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
LC/MS Pesticide Standard #3	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
LC/MS Pesticide Standard #4	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
LC/MS Pesticide Standard #5	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
LC/MS Pesticide Standard #6	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
LC/MS Pesticide Standard #7	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
LC/MS Pesticide Standard #8	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2

Composition/information on ingredients

Section 15. Regulatory information

Name	%	Classification
LC/MS Pesticide Standard #1 Acetonitrile	≥90	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
LC/MS Pesticide Standard #2 Acetonitrile	≥90	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
LC/MS Pesticide Standard #3 Acetonitrile	≥90	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
LC/MS Pesticide Standard #4 Acetonitrile	≥90	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
LC/MS Pesticide Standard #5 Acetonitrile	≥90	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
LC/MS Pesticide Standard #6 Acetonitrile	≥90	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
LC/MS Pesticide Standard #7 Acetonitrile	≥90	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2
LC/MS Pesticide Standard #8 Acetonitrile	≥90	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4

Section 15. Regulatory information

		EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	**LC/MS Pesticide Standard #1** Acetonitrile	 75-05-8	 ≥90
	LC/MS Pesticide Standard #2 Acetonitrile	 75-05-8	 ≥90
	LC/MS Pesticide Standard #3 Acetonitrile N-(1-Ethylpropyl)-2,6-dinitro-3,4-xylidine	 75-05-8 40487-42-1	 ≥90 <0.1
	LC/MS Pesticide Standard #4 Acetonitrile	 75-05-8	 ≥90
	LC/MS Pesticide Standard #5 Acetonitrile	 75-05-8	 ≥90
	LC/MS Pesticide Standard #6 Acetonitrile	 75-05-8	 ≥90
	LC/MS Pesticide Standard #7 Acetonitrile	 75-05-8	 ≥90
	LC/MS Pesticide Standard #8 Acetonitrile	 75-05-8	 ≥90
Supplier notification	**LC/MS Pesticide Standard #1** Acetonitrile	 75-05-8	 ≥90
	LC/MS Pesticide Standard #2 Acetonitrile	 75-05-8	 ≥90
	LC/MS Pesticide Standard #3 Acetonitrile	 75-05-8	 ≥90
	LC/MS Pesticide Standard #4 Acetonitrile	 75-05-8	 ≥90
	LC/MS Pesticide Standard #5 Acetonitrile	 75-05-8	 ≥90
	LC/MS Pesticide Standard #6 Acetonitrile	 75-05-8	 ≥90
	LC/MS Pesticide Standard #7 Acetonitrile	 75-05-8	 ≥90
	LC/MS Pesticide Standard #8 Acetonitrile	 75-05-8	 ≥90

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: ACETONITRILE

Section 15. Regulatory information

New York : The following components are listed: Acetonitrile; Ethanenitrile

New Jersey : The following components are listed: ACETONITRILE; CYANOMETHANE

Pennsylvania : The following components are listed: ACETONITRILE

California Prop. 65

WARNING: This product can expose you to chemicals including Oxadiazon, Propargite, Carbaryl, which are known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Spirodiclofen, Imazalil, DDVP, Ethoprop, Procymidone, Pirimicarb, Isoxaflutole, Malathion, Pronamide, Mepanipyrim, Kresoxim-methyl, Thiodicarb, Iprovalicarb, Diuron, Propoxur, Pymetrozine, which are known to the State of California to cause cancer, and Myclobutanil, Cycloate, Molinate, Triadimefon, Linuron, Abamectin, Hydramethylnon, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
LC/MS Pesticide Standard #1		
Myclobutanil	-	-
Cycloate	-	-
Spirodiclofen	-	-
LC/MS Pesticide Standard #2		
Imazalil	Yes.	-
DDVP	Yes.	-
Ethoprop	-	-
LC/MS Pesticide Standard #3		
Procymidone	-	-
Pirimicarb	-	-
Isoxaflutole	-	-
Malathion	-	-
Oxadiazon	-	-
Molinate	-	-
Pronamide	-	-
Triadimefon	-	-
Mepanipyrim	-	-
LC/MS Pesticide Standard #4		
Kresoxim-methyl	-	-
Linuron	-	Yes.
Propargite	-	-
LC/MS Pesticide Standard #5		
Thiodicarb	-	-
Iprovalicarb	-	-
Diuron	-	-
LC/MS Pesticide Standard #6		
Carbaryl	-	-
Propoxur	-	-
LC/MS Pesticide Standard #7		
Abamectin	-	Yes.
Pymetrozine	-	-
Hydramethylnon	-	Yes.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Section 15. Regulatory information

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	:	Not determined.
Canada	:	Not determined.
China	:	Not determined.
Europe	:	Not determined.
Japan	:	**Japan inventory (ENCS)**: Not determined. **Japan inventory (ISHL)**: Not determined.
Malaysia	:	Not determined.
New Zealand	:	Not determined.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	Not determined.
Thailand	:	Not determined.
Turkey	:	Not determined.
United States	:	Not determined.
Viet Nam	:	Not determined.

Section 16. Other information

History

Date of issue	:	06/21/2018
Date of previous issue	:	06/24/2016
Version	:	4

Procedure used to derive the classification

Classification	Justification
LC/MS Pesticide Standard #1	
FLAMMABLE LIQUIDS - Category 2	On basis of test data
ACUTE TOXICITY (oral) - Category 4	Calculation method
ACUTE TOXICITY (dermal) - Category 4	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
EYE IRRITATION - Category 2A	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2	Calculation method
AQUATIC HAZARD (ACUTE) - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 1	Calculation method
LC/MS Pesticide Standard #2	
FLAMMABLE LIQUIDS - Category 2	On basis of test data

Section 16. Other information

ACUTE TOXICITY (oral) - Category 4	Calculation method
ACUTE TOXICITY (dermal) - Category 4	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
EYE IRRITATION - Category 2A	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2	Calculation method
AQUATIC HAZARD (ACUTE) - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 1	Calculation method
LC/MS Pesticide Standard #3	
FLAMMABLE LIQUIDS - Category 2	On basis of test data
ACUTE TOXICITY (oral) - Category 4	Calculation method
ACUTE TOXICITY (dermal) - Category 4	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
EYE IRRITATION - Category 2A	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2	Calculation method
AQUATIC HAZARD (ACUTE) - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 1	Calculation method
LC/MS Pesticide Standard #4	
FLAMMABLE LIQUIDS - Category 2	On basis of test data
ACUTE TOXICITY (oral) - Category 4	Calculation method
ACUTE TOXICITY (dermal) - Category 4	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
EYE IRRITATION - Category 2A	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2	Calculation method
AQUATIC HAZARD (ACUTE) - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 1	Calculation method
LC/MS Pesticide Standard #5	
FLAMMABLE LIQUIDS - Category 2	On basis of test data
ACUTE TOXICITY (oral) - Category 4	Calculation method
ACUTE TOXICITY (dermal) - Category 4	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
EYE IRRITATION - Category 2A	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2	Calculation method
AQUATIC HAZARD (ACUTE) - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 1	Calculation method
LC/MS Pesticide Standard #6	
FLAMMABLE LIQUIDS - Category 2	On basis of test data
ACUTE TOXICITY (oral) - Category 4	Calculation method
ACUTE TOXICITY (dermal) - Category 4	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
EYE IRRITATION - Category 2A	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2	Calculation method
AQUATIC HAZARD (ACUTE) - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 1	Calculation method
LC/MS Pesticide Standard #7	
FLAMMABLE LIQUIDS - Category 2	On basis of test data
ACUTE TOXICITY (oral) - Category 4	Calculation method
ACUTE TOXICITY (dermal) - Category 4	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
EYE IRRITATION - Category 2A	Calculation method

Section 16. Other information

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2	Calculation method
AQUATIC HAZARD (ACUTE) - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 1	Calculation method
LC/MS Pesticide Standard #8	
FLAMMABLE LIQUIDS - Category 2	On basis of test data
ACUTE TOXICITY (oral) - Category 4	Calculation method
ACUTE TOXICITY (dermal) - Category 4	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
EYE IRRITATION - Category 2A	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, central nervous system (CNS), kidneys, liver) - Category 2	Calculation method
AQUATIC HAZARD (ACUTE) - Category 2	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 2	Calculation method

Indicates information that has changed from previously issued version.

Notice to reader

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