

SAFETY DATA SHEET



GC Checkout Standards Kit, Part Number 5188-5358

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : GC Checkout Standards Kit, Part Number 5188-5358
Part No. (Kit) : 5188-5358
Part No. : Flame Ionization 5080-8842
Detector (FID) Sample-0.
33%(w/w)
Electron Capture 18713-60040-1
Detector Sample
Nitrogen/Phosphorus 18789-60060-1
Detector Sample
Flame Photometric 5188-5953-1
Detector Checkout
Sample (40)
Headspace OQ/PV 5182-9733-1
Standard

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

Identified uses	
Analytical chemistry.	
Flame Ionization Detector (FID) Sample-0.33%(w/w)	2 x 0.5 ml
Electron Capture Detector Sample	1 x 0.5 ml
Nitrogen/Phosphorus Detector Sample	1 x 0.5 ml
Flame Photometric Detector Checkout Sample (40)	1 x 1 ml
Headspace OQ/PV Standard	1 x 1 ml

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Flame Ionization Mixture
Detector (FID) Sample-0.
33%(w/w)
Electron Capture Mixture
Detector Sample
Nitrogen/Phosphorus Mixture
Detector Sample
Flame Photometric Mixture
Detector Checkout
Sample (40)

Date of issue/Date of revision : 10/05/2016

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Headspace OQ/PV Mixture
Standard

[Classification according to Regulation \(EC\) No. 1272/2008 \[CLP/GHS\]](#)

Flame Ionization Detector (FID)

Sample-0.33%(w/w)

H225	FLAMMABLE LIQUIDS - Category 2
H315	SKIN CORROSION/IRRITATION - Category 2
H361f	TOXIC TO REPRODUCTION (Fertility) - Category 2
H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
H304	ASPIRATION HAZARD - Category 1
H411	LONG-TERM AQUATIC HAZARD - Category 2

Electron Capture Detector

Sample

H225	FLAMMABLE LIQUIDS - Category 2
H315	SKIN CORROSION/IRRITATION - Category 2
H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
H304	ASPIRATION HAZARD - Category 1
H400	ACUTE AQUATIC HAZARD - Category 1
H410	LONG-TERM AQUATIC HAZARD - Category 1

Nitrogen/Phosphorus Detector

Sample

H225	FLAMMABLE LIQUIDS - Category 2
H315	SKIN CORROSION/IRRITATION - Category 2
H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
H304	ASPIRATION HAZARD - Category 1
H400	ACUTE AQUATIC HAZARD - Category 1
H410	LONG-TERM AQUATIC HAZARD - Category 1

Flame Photometric Detector

Checkout Sample (40)

H225	FLAMMABLE LIQUIDS - Category 2
H315	SKIN CORROSION/IRRITATION - Category 2
H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
H304	ASPIRATION HAZARD - Category 1
H400	ACUTE AQUATIC HAZARD - Category 1
H410	LONG-TERM AQUATIC HAZARD - Category 1

Headspace OQ/PV Standard

H225	FLAMMABLE LIQUIDS - Category 2
H412	LONG-TERM AQUATIC HAZARD - Category 3

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



SECTION 2: Hazards identification

Signal word	: Flame Ionization Detector (FID) Sample-0. 33%(w/w)	Danger
	Electron Capture Detector Sample	Danger
	Nitrogen/Phosphorus Detector Sample	Danger
	Flame Photometric Detector Checkout Sample (40)	Danger
	Headspace OQ/PV Standard	Danger
Hazard statements	: Flame Ionization Detector (FID) Sample-0. 33%(w/w)	GHS02 - Highly flammable liquid and vapour. GHS07 - Causes skin irritation. May cause drowsiness or dizziness. GHS08 - May be fatal if swallowed and enters airways. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure. GHS09 - Toxic to aquatic life with long lasting effects.
	Electron Capture Detector Sample	GHS02 - Highly flammable liquid and vapour. GHS07 - Causes skin irritation. May cause drowsiness or dizziness. GHS08 - May be fatal if swallowed and enters airways. GHS09 - Very toxic to aquatic life with long lasting effects.
	Nitrogen/Phosphorus Detector Sample	GHS02 - Highly flammable liquid and vapour. GHS07 - Causes skin irritation. May cause drowsiness or dizziness. GHS08 - May be fatal if swallowed and enters airways. GHS09 - Very toxic to aquatic life with long lasting effects.
	Flame Photometric Detector Checkout Sample (40)	GHS02 - Highly flammable liquid and vapour. GHS07 - Causes skin irritation. May cause drowsiness or dizziness. GHS08 - May be fatal if swallowed and enters airways. GHS09 - Very toxic to aquatic life with long lasting effects.
	Headspace OQ/PV Standard	GHS02 - Highly flammable liquid and vapour. Harmful to aquatic life with long lasting effects.

Precautionary statements

SECTION 2: Hazards identification

Prevention

- : Flame Ionization Detector (FID) Sample-0. 33%(w/w)
 - P201 - Obtain special instructions before use.
 - 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.
 - P273 - Avoid release to the environment.
 - P260 - Do not breathe vapour.
 - P280 - Wear protective gloves. Wear eye or face protection.
- Electron Capture Detector Sample
 - 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.
 - P273 - Avoid release to the environment.
 - P280 - Wear protective gloves. Wear eye or face protection.
- Nitrogen/Phosphorus Detector Sample
 - 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.
 - P273 - Avoid release to the environment.
 - P280 - Wear protective gloves. Wear eye or face protection.
- Flame Photometric Detector Checkout Sample (40)
 - 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.
 - P273 - Avoid release to the environment.
 - P280 - Wear protective gloves. Wear eye or face protection.
- Headspace OQ/PV Standard
 - 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.
 - P273 - Avoid release to the environment.
 - P280 - Wear protective gloves. Wear eye or face protection.

Response

- : Flame Ionization Detector (FID) Sample-0. 33%(w/w)
 - P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 - P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.
 - P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- Electron Capture Detector Sample
 - P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 - P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.
 - P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- Nitrogen/Phosphorus Detector Sample
 - P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 - P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.
 - P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- Flame Photometric Detector Checkout
 - P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

SECTION 2: Hazards identification

Sample (40)

P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

Headspace OQ/PV Standard

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

Storage

- : Flame Ionization Detector (FID) Sample-0.33%(w/w) P235 - Keep cool.
- Electron Capture Detector Sample P235 - Keep cool.
- Nitrogen/Phosphorus Detector Sample P235 - Keep cool.
- Flame Photometric Detector Checkout Sample (40) P235 - Keep cool.
- Headspace OQ/PV Standard P235 - Keep cool.

Disposal

- : Flame Ionization Detector (FID) Sample-0.33%(w/w) P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Electron Capture Detector Sample P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Nitrogen/Phosphorus Detector Sample P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Flame Photometric Detector Checkout Sample (40) P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Headspace OQ/PV Standard P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients

: **Flame Ionization Detector (FID) Sample-0.33%(w/w)**
 n-Hexane

Electron Capture Detector Sample
 2,2,4-trimethylpentane

Nitrogen/Phosphorus Detector Sample
 2,2,4-trimethylpentane

Flame Photometric Detector Checkout Sample (40)
 2,2,4-trimethylpentane

Supplemental label elements

- : Flame Ionization Detector (FID) Sample-0.33%(w/w) Not applicable.
- Electron Capture Detector Sample Not applicable.
- Nitrogen/Phosphorus Detector Sample Not applicable.
- Flame Photometric Detector Checkout Sample (40) Not applicable.
- Headspace OQ/PV Standard Not applicable.

SECTION 2: Hazards identification

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles :

- Flame Ionization Detector (FID) Sample-0.33%(w/w) Not applicable.
- Electron Capture Detector Sample Not applicable.
- Nitrogen/Phosphorus Detector Sample Not applicable.
- Flame Photometric Detector Checkout Sample (40) Not applicable.
- Headspace OQ/PV Standard Not applicable.

Special packaging requirements

Tactile warning of danger :

- Flame Ionization Detector (FID) Sample-0.33%(w/w) Not applicable.
- Electron Capture Detector Sample Not applicable.
- Nitrogen/Phosphorus Detector Sample Not applicable.
- Flame Photometric Detector Checkout Sample (40) Not applicable.
- Headspace OQ/PV Standard Not applicable.

2.3 Other hazards

Other hazards which do not result in classification :

- Flame Ionization Detector (FID) Sample-0.33%(w/w) None known.
- Electron Capture Detector Sample None known.
- Nitrogen/Phosphorus Detector Sample None known.
- Flame Photometric Detector Checkout Sample (40) None known.
- Headspace OQ/PV Standard None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures :

- Flame Ionization Detector (FID) Sample-0.33%(w/w) Mixture
- Electron Capture Detector Sample Mixture
- Nitrogen/Phosphorus Detector Sample Mixture
- Flame Photometric Detector Checkout Sample (40) Mixture
- Headspace OQ/PV Standard Mixture

Product/ingredient name	Identifiers	%	Classification	Type
Flame Ionization Detector (FID) Sample-0.33%(w/w) n-Hexane	EC: 203-777-6 CAS: 110-54-3 Index: 601-037-00-0	≥90	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361f (Fertility) STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1] [2]
Electron Capture Detector				

SECTION 3: Composition/information on ingredients

Sample 2,2,4-trimethylpentane	EC: 208-759-1 CAS: 540-84-1 Index: 601-009-00-8	≥90	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
Nitrogen/Phosphorus Detector Sample 2,2,4-trimethylpentane	EC: 208-759-1 CAS: 540-84-1 Index: 601-009-00-8	≥90	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
Malathion (ISO)	EC: 204-497-7 CAS: 121-75-5 Index: 015-041-00-X	≤0.1	Acute Tox. 4, H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)	[1] [2]
Flame Photometric Detector Checkout Sample (40) 2,2,4-trimethylpentane	EC: 208-759-1 CAS: 540-84-1 Index: 601-009-00-8	≥90	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
Headspace OQ/PV Standard Ethanol	EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥90	Flam. Liq. 2, H225	[2]
Nitrobenzene	EC: 202-716-0 CAS: 98-95-3 Index: 609-003-00-7	<0.3	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Carc. 2, H351 Repr. 1B, H360F (Fertility) STOT RE 1, H372 (blood system) Aquatic Chronic 3, H412	[1] [2]
1,2-Dichlorobenzene	EC: 202-425-9 CAS: 95-50-1 Index: 602-034-00-7	≤0.3	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) See Section 16 for the full text of the H statements declared above.	[1] [2]

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.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: Flame Ionization Detector (FID) Sample-0. 33%(w/w)	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.
	Electron Capture Detector Sample	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.
	Nitrogen/Phosphorus Detector Sample	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.
	Flame Photometric Detector Checkout Sample (40)	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.
	Headspace OQ/PV Standard	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 if irritation occurs.
Inhalation	: Flame Ionization Detector (FID) Sample-0. 33%(w/w)	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. 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.
	Electron Capture Detector Sample	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. 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.
	Nitrogen/Phosphorus Detector Sample	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. 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.
	Flame Photometric Detector Checkout Sample (40)	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

SECTION 4: First aid measures

be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. 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.

Headspace OQ/PV Standard

Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 if adverse health effects persist or are severe. 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.

Skin contact

: Flame Ionization Detector (FID) Sample-0.33%(w/w)

Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Electron Capture Detector Sample

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Nitrogen/Phosphorus Detector Sample

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Flame Photometric Detector Checkout Sample (40)

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Headspace OQ/PV Standard

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Flame Ionization Detector (FID) Sample-0.33%(w/w)

Get medical attention immediately. Call a poison center or physician. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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.

Electron Capture Detector Sample

Get medical attention immediately. Call a poison center or physician. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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.

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<p>Nitrogen/Phosphorus Detector Sample</p> <p>Flame Photometric Detector Checkout Sample (40)</p> <p>Headspace OQ/PV Standard</p>	<p>Get medical attention immediately. Call a poison center or physician. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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.</p> <p>Get medical attention immediately. Call a poison center or physician. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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.</p> <p>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 adverse health effects persist or are severe. 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.</p>
<p>Protection of first-aiders : Flame Ionization Detector (FID) Sample-0. 33%(w/w)</p> <p>Electron Capture Detector Sample</p> <p>Nitrogen/Phosphorus Detector Sample</p> <p>Flame Photometric Detector Checkout Sample (40)</p>	<p>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.</p> <p>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.</p> <p>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.</p> <p>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</p>

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Headspace OQ/PV Standard	to the person providing aid to give mouth-to-mouth resuscitation. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
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4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	: Flame Ionization Detector (FID) Sample-0. 33%(w/w) Electron Capture Detector Sample Nitrogen/Phosphorus Detector Sample Flame Photometric Detector Checkout Sample (40) Headspace OQ/PV Standard	No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: Flame Ionization Detector (FID) Sample-0. 33%(w/w) Electron Capture Detector Sample Nitrogen/Phosphorus Detector Sample Flame Photometric Detector Checkout Sample (40) Headspace OQ/PV Standard	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. No known significant effects or critical hazards.
Skin contact	: Flame Ionization Detector (FID) Sample-0. 33%(w/w) Electron Capture Detector Sample Nitrogen/Phosphorus Detector Sample Flame Photometric Detector Checkout Sample (40) Headspace OQ/PV Standard	Causes skin irritation. Causes skin irritation. Causes skin irritation. Causes skin irritation. No known significant effects or critical hazards.
Ingestion	: Flame Ionization Detector (FID) Sample-0. 33%(w/w) Electron Capture Detector Sample Nitrogen/Phosphorus Detector Sample Flame Photometric Detector Checkout Sample (40) Headspace OQ/PV Standard	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. No known significant effects or critical hazards.

Over-exposure signs/symptoms

SECTION 4: First aid measures

Eye contact	:	Flame Ionization Detector (FID) Sample-0. 33%(w/w)	Adverse symptoms may include the following: pain or irritation watering redness
		Electron Capture Detector Sample	Adverse symptoms may include the following: pain or irritation watering redness
		Nitrogen/Phosphorus Detector Sample	Adverse symptoms may include the following: pain or irritation watering redness
		Flame Photometric Detector Checkout Sample (40)	Adverse symptoms may include the following: pain or irritation watering redness
		Headspace OQ/PV Standard	No specific data.
Inhalation	:	Flame Ionization Detector (FID) Sample-0. 33%(w/w)	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations
		Electron Capture Detector Sample	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
		Nitrogen/Phosphorus Detector Sample	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
		Flame Photometric Detector Checkout Sample (40)	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
		Headspace OQ/PV Standard	No specific data.

SECTION 4: First aid measures

Skin contact	:	Flame Ionization Detector (FID) Sample-0. 33%(w/w)	Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
		Electron Capture Detector Sample	Adverse symptoms may include the following: irritation redness
		Nitrogen/Phosphorus Detector Sample	Adverse symptoms may include the following: irritation redness
		Flame Photometric Detector Checkout Sample (40)	Adverse symptoms may include the following: irritation redness
		Headspace OQ/PV Standard	No specific data.
Ingestion	:	Flame Ionization Detector (FID) Sample-0. 33%(w/w)	Adverse symptoms may include the following: nausea or vomiting reduced foetal weight increase in foetal deaths skeletal malformations
		Electron Capture Detector Sample	Adverse symptoms may include the following: nausea or vomiting
		Nitrogen/Phosphorus Detector Sample	Adverse symptoms may include the following: nausea or vomiting
		Flame Photometric Detector Checkout Sample (40)	Adverse symptoms may include the following: nausea or vomiting
		Headspace OQ/PV Standard	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	:	Flame Ionization Detector (FID) Sample-0. 33%(w/w)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Electron Capture Detector Sample	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Nitrogen/Phosphorus Detector Sample	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Flame Photometric Detector Checkout Sample (40)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Headspace OQ/PV Standard	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 4: First aid measures

Specific treatments	:	Flame Ionization Detector (FID) Sample-0. 33%(w/w) Electron Capture Detector Sample Nitrogen/Phosphorus Detector Sample Flame Photometric Detector Checkout Sample (40) Headspace OQ/PV Standard	No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Flame Ionization Detector (FID) Sample-0. 33%(w/w) Electron Capture Detector Sample Nitrogen/Phosphorus Detector Sample Flame Photometric Detector Checkout Sample (40) Headspace OQ/PV Standard	Use dry chemical, CO ₂ , water spray (fog) or foam. Use dry chemical, CO ₂ , water spray (fog) or foam. Use dry chemical, CO ₂ , water spray (fog) or foam. Use dry chemical, CO ₂ , water spray (fog) or foam. Use dry chemical, CO ₂ , water spray (fog) or foam.
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Unsuitable extinguishing media	:	Flame Ionization Detector (FID) Sample-0. 33%(w/w) Electron Capture Detector Sample Nitrogen/Phosphorus Detector Sample Flame Photometric Detector Checkout Sample (40) Headspace OQ/PV Standard	Do not use water jet. Do not use water jet. Do not use water jet. Do not use water jet. Do not use water jet.
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5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	:	Flame Ionization Detector (FID) Sample-0. 33%(w/w) Electron Capture Detector Sample	Highly flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. 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. Highly flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. 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
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SECTION 5: Firefighting measures

Nitrogen/Phosphorus Detector Sample	waterway, sewer or drain. Highly flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. 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.
Flame Photometric Detector Checkout Sample (40)	Highly flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. 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.
Headspace OQ/PV Standard	Highly flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. This material is harmful 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 combustion products	: Flame Ionization Detector (FID) Sample-0. 33%(w/w) Decomposition products may include the following materials: carbon dioxide carbon monoxide
Electron Capture Detector Sample	Decomposition products may include the following materials: carbon dioxide carbon monoxide
Nitrogen/Phosphorus Detector Sample	Decomposition products may include the following materials: carbon dioxide carbon monoxide
Flame Photometric Detector Checkout Sample (40)	Decomposition products may include the following materials: carbon dioxide carbon monoxide
Headspace OQ/PV Standard	Decomposition products may include the following materials: carbon dioxide carbon monoxide

5.3 Advice for firefighters

Special precautions for fire-fighters	: Flame Ionization Detector (FID) Sample-0. 33%(w/w) 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.
Electron Capture Detector Sample	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.

SECTION 5: Firefighting measures

	Nitrogen/Phosphorus Detector Sample	Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. 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.
	Flame Photometric Detector Checkout Sample (40)	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.
	Headspace OQ/PV Standard	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	: Flame Ionization Detector (FID) Sample-0. 33%(w/w)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	Electron Capture Detector Sample	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	Nitrogen/Phosphorus Detector Sample	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	Flame Photometric Detector Checkout Sample (40)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	Headspace OQ/PV Standard	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: Flame Ionization Detector (FID) Sample-0. 33%(w/w)	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 vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	Electron Capture Detector Sample	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

		<p>ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</p> <p>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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</p>
	Nitrogen/Phosphorus Detector Sample	<p>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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</p>
	Flame Photometric Detector Checkout Sample (40)	<p>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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</p>
	Headspace OQ/PV Standard	<p>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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</p>
For emergency responders	: Flame Ionization Detector (FID) Sample-0. 33%(w/w)	<p>If specialised 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".</p>
	Electron Capture Detector Sample	<p>If specialised 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".</p>
	Nitrogen/Phosphorus Detector Sample	<p>If specialised 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".</p>
	Flame Photometric Detector Checkout Sample (40)	<p>If specialised 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".</p>
	Headspace OQ/PV Standard	<p>If specialised 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".</p>
6.2 Environmental precautions	: Flame Ionization Detector (FID) Sample-0. 33%(w/w)	<p>Avoid dispersal of spilt 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.</p>
	Electron Capture Detector Sample	<p>Avoid dispersal of spilt 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</p>

SECTION 6: Accidental release measures

Nitrogen/Phosphorus Detector Sample	quantities. Collect spillage. Avoid dispersal of spilt 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.
Flame Photometric Detector Checkout Sample (40)	Avoid dispersal of spilt 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.
Headspace OQ/PV Standard	Avoid dispersal of spilt 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.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	<p>: Flame Ionization Detector (FID) Sample-0. 33%(w/w)</p> <p>Electron Capture Detector Sample</p> <p>Nitrogen/Phosphorus Detector Sample</p> <p>Flame Photometric Detector Checkout Sample (40)</p> <p>Headspace OQ/PV Standard</p>	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
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6.4 Reference to other sections : See Section 1 for emergency contact information.
 See Section 8 for information on appropriate personal protective equipment.
 See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Protective measures**

: Flame Ionization Detector (FID) Sample-0. 33%(w/w)	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not swallow. 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.
Electron Capture Detector Sample	Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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.
Nitrogen/Phosphorus Detector Sample	Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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.
Flame Photometric Detector Checkout Sample (40)	Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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.

SECTION 7: Handling and storage

	Headspace OQ/PV Standard	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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.
Advice on general occupational hygiene	: Flame Ionization Detector (FID) Sample-0. 33%(w/w)	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.
	Electron Capture Detector Sample	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.
	Nitrogen/Phosphorus Detector Sample	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.
	Flame Photometric Detector Checkout Sample (40)	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.
	Headspace OQ/PV Standard	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.
7.2 Conditions for safe storage, including any incompatibilities	: Flame Ionization Detector (FID) Sample-0. 33%(w/w)	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. Store locked up. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.
	Electron Capture Detector Sample	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. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use.

SECTION 7: Handling and storage

Nitrogen/Phosphorus
Detector Sample

Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

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. Store locked up. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

Flame Photometric
Detector Checkout
Sample (40)

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. Store locked up. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

Headspace OQ/PV
Standard

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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
Flame Ionization Detector (FID) Sample-0.33%(w/w) P5c: Flammable liquids 2 and 3 not falling under P5a or P5b E2: Hazardous to the aquatic environment - Chronic 2	5000 200	50000 500
Electron Capture Detector Sample P5c: Flammable liquids 2 and 3 not falling under P5a or P5b E1: Hazardous to the aquatic environment - Acute 1 or Chronic 1	5000 100	50000 200
Nitrogen/Phosphorus Detector Sample P5c: Flammable liquids 2 and 3 not falling under P5a or P5b E1: Hazardous to the aquatic environment - Acute 1 or Chronic 1	5000 100	50000 200
Flame Photometric Detector Checkout Sample (40) P5c: Flammable liquids 2 and 3 not falling under P5a or P5b E1: Hazardous to the aquatic environment - Acute 1 or Chronic 1	5000 100	50000 200
Headspace OQ/PV Standard P5c: Flammable liquids 2 and 3 not falling under P5a or P5b	5000	50000

SECTION 7: Handling and storage

7.3 Specific end use(s)

Recommendations	: Flame Ionization Detector (FID) Sample-0. 33%(w/w)	Industrial applications, Professional applications.
	Electron Capture Detector Sample	Industrial applications, Professional applications.
	Nitrogen/Phosphorus Detector Sample	Industrial applications, Professional applications.
	Flame Photometric Detector Checkout Sample (40)	Industrial applications, Professional applications.
	Headspace OQ/PV Standard	Industrial applications, Professional applications.
Industrial sector specific solutions	: Flame Ionization Detector (FID) Sample-0. 33%(w/w)	Not applicable.
	Electron Capture Detector Sample	Not applicable.
	Nitrogen/Phosphorus Detector Sample	Not applicable.
	Flame Photometric Detector Checkout Sample (40)	Not applicable.
	Headspace OQ/PV Standard	Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Flame Ionization Detector (FID) Sample-0. 33%(w/w) n-Hexane	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 72 mg/m ³ 8 hours. TWA: 20 ppm 8 hours.
Nitrogen/Phosphorus Detector Sample Malathion (ISO)	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. TWA: 10 mg/m ³ 8 hours.
Headspace OQ/PV Standard Ethanol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 1000 ppm 8 hours. TWA: 1920 mg/m ³ 8 hours.
Nitrobenzene	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. TWA: 1 mg/m ³ 8 hours. TWA: 0.2 ppm 8 hours.
1,2-Dichlorobenzene	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 306 mg/m ³ 15 minutes. STEL: 50 ppm 15 minutes. TWA: 25 ppm 8 hours. TWA: 153 mg/m ³ 8 hours.

SECTION 8: Exposure controls/personal protection

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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.

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. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

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.

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.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****Appearance**

Physical state	:	Flame Ionization Detector (FID) Sample-0.33%(w/w)	Liquid. [Clear.]
		Electron Capture Detector Sample	Liquid.
		Nitrogen/Phosphorus Detector Sample	Liquid.
		Flame Photometric Detector Checkout Sample (40)	Liquid.
		Headspace OQ/PV Standard	Liquid.
	Colour	:	Flame Ionization Detector (FID) Sample-0.33%(w/w)
		Electron Capture Detector Sample	Not available.
		Nitrogen/Phosphorus Detector Sample	Not available.
		Flame Photometric Detector Checkout Sample (40)	Clear. Colourless.
		Headspace OQ/PV Standard	Clear. Colourless.
Odour		:	Flame Ionization Detector (FID) Sample-0.33%(w/w)
		Electron Capture Detector Sample	Not available.
		Nitrogen/Phosphorus Detector Sample	Not available.
		Flame Photometric Detector Checkout Sample (40)	Gasoline-like
		Headspace OQ/PV Standard	Ethereal. Vinous.
	Odour threshold	:	Flame Ionization Detector (FID) Sample-0.33%(w/w)
		Electron Capture Detector Sample	Not available.
		Nitrogen/Phosphorus Detector Sample	Not available.
		Flame Photometric Detector Checkout Sample (40)	Not available.
		Headspace OQ/PV Standard	Not available.
pH		:	Flame Ionization Detector (FID) Sample-0.33%(w/w)
		Electron Capture Detector Sample	Not available.
		Nitrogen/Phosphorus Detector Sample	Not available.
		Flame Photometric Detector Checkout Sample (40)	Not available.
		Headspace OQ/PV Standard	Not available.

SECTION 9: Physical and chemical properties

Melting point/freezing point	:	Flame Ionization Detector (FID) Sample- 0.33%(w/w) Electron Capture Detector Sample Nitrogen/Phosphorus Detector Sample Flame Photometric Detector Checkout Sample (40) Headspace OQ/PV Standard	-100 to -95°C -107°C Not available. -107°C -117°C
Initial boiling point and boiling range	:	Flame Ionization Detector (FID) Sample- 0.33%(w/w) Electron Capture Detector Sample Nitrogen/Phosphorus Detector Sample Flame Photometric Detector Checkout Sample (40) Headspace OQ/PV Standard	69°C 99°C Not available. 99.2°C 78.3°C
Flash point	:	Flame Ionization Detector (FID) Sample- 0.33%(w/w) Electron Capture Detector Sample Nitrogen/Phosphorus Detector Sample Flame Photometric Detector Checkout Sample (40) Headspace OQ/PV Standard	Closed cup: -22°C [Tagliabue.] Closed cup: -18 to 23°C Closed cup: -18 to 23°C Open cup: 4.5°C Open cup: 12.7°C
Evaporation rate	:	Flame Ionization Detector (FID) Sample- 0.33%(w/w) Electron Capture Detector Sample Nitrogen/Phosphorus Detector Sample Flame Photometric Detector Checkout Sample (40) Headspace OQ/PV Standard	Not available. >1 (butyl acetate = 1) Not available. Not available. >4 (butyl acetate = 1)
Flammability (solid, gas)	:	Flame Ionization Detector (FID) Sample- 0.33%(w/w) Electron Capture Detector Sample Nitrogen/Phosphorus Detector Sample Flame Photometric Detector Checkout Sample (40) Headspace OQ/PV Standard	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

SECTION 9: Physical and chemical properties

Upper/lower flammability or explosive limits	:	Flame Ionization Detector (FID) Sample-0.33%(w/w)	Lower: 1.1%
		Electron Capture Detector Sample	Upper: 7.5% Lower: 1.1%
		Nitrogen/Phosphorus Detector Sample	Upper: 6% Not available.
		Flame Photometric Detector Checkout Sample (40)	Lower: 1%
		Headspace OQ/PV Standard	Upper: 6% Lower: 3.3%
			Upper: 19%
Vapour pressure	:	Flame Ionization Detector (FID) Sample-0.33%(w/w)	20 kPa [room temperature]
		Electron Capture Detector Sample	Not available.
		Nitrogen/Phosphorus Detector Sample	Not available.
		Flame Photometric Detector Checkout Sample (40)	5.5 kPa [room temperature]
		Headspace OQ/PV Standard	5.7 kPa [room temperature]
Vapour density	:	Flame Ionization Detector (FID) Sample-0.33%(w/w)	2.97 [Air = 1]
		Electron Capture Detector Sample	>1 [Air = 1]
		Nitrogen/Phosphorus Detector Sample	Not available.
		Flame Photometric Detector Checkout Sample (40)	3.93 [Air = 1]
		Headspace OQ/PV Standard	1.7 [Air = 1]
Relative density	:	Flame Ionization Detector (FID) Sample-0.33%(w/w)	0.66 [Water = 1]
		Electron Capture Detector Sample	0.69
		Nitrogen/Phosphorus Detector Sample	Not available.
		Flame Photometric Detector Checkout Sample (40)	Not available.
		Headspace OQ/PV Standard	Not available.
Solubility(ies)	:	Flame Ionization Detector (FID) Sample-0.33%(w/w)	Insoluble in the following materials: cold water and hot water.
		Electron Capture Detector Sample	Easily soluble in the following materials: diethyl ether.
			Partially soluble in the following materials: methanol. Insoluble in the following materials: cold water and hot water.
		Nitrogen/Phosphorus Detector Sample	Easily soluble in the following materials: diethyl ether.
			Partially soluble in the following materials: methanol.

SECTION 9: Physical and chemical properties

Insoluble in the following materials: cold water and hot water.

Flame Photometric
Detector Checkout
Sample (40)
Insoluble in the following materials: cold water and hot water.Headspace OQ/PV
Standard
Soluble in the following materials: cold water and hot water.**Partition coefficient: n-octanol/water** : Flame Ionization
Detector (FID) Sample-
0.33%(w/w)
3.9 to 4.11Electron Capture
Detector Sample
Not available.Nitrogen/Phosphorus
Detector Sample
Not available.Flame Photometric
Detector Checkout
Sample (40)
Not available.Headspace OQ/PV
Standard
Not available.**Auto-ignition temperature** : Flame Ionization
Detector (FID) Sample-
0.33%(w/w)
Not available.Electron Capture
Detector Sample
417°CNitrogen/Phosphorus
Detector Sample
Not available.Flame Photometric
Detector Checkout
Sample (40)
418°CHeadspace OQ/PV
Standard
422°C**Decomposition temperature** : Flame Ionization
Detector (FID) Sample-
0.33%(w/w)
Not available.Electron Capture
Detector Sample
Not available.Nitrogen/Phosphorus
Detector Sample
Not available.Flame Photometric
Detector Checkout
Sample (40)
Not available.Headspace OQ/PV
Standard
Not available.**Viscosity** : Flame Ionization
Detector (FID) Sample-
0.33%(w/w)
Not available.Electron Capture
Detector Sample
Not available.Nitrogen/Phosphorus
Detector Sample
Not available.Flame Photometric
Detector Checkout
Sample (40)
Not available.Headspace OQ/PV
Standard
Not available.**Explosive properties** : Flame Ionization
Detector (FID) Sample-
0.33%(w/w)
Not available.Electron Capture
Detector Sample
Not available.Nitrogen/Phosphorus
Detector Sample
Not available.Flame Photometric
Not available.

SECTION 9: Physical and chemical properties

	Detector Checkout Sample (40)	
	Headspace OQ/PV Standard	Not available.
Oxidising properties	: Flame Ionization Detector (FID) Sample-0.33%(w/w)	Not available.
	Electron Capture Detector Sample	Not available.
	Nitrogen/Phosphorus Detector Sample	Not available.
	Flame Photometric Detector Checkout Sample (40)	Not available.
	Headspace OQ/PV Standard	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: Flame Ionization Detector (FID) Sample-0.33%(w/w)	No specific test data related to reactivity available for this product or its ingredients.
	Electron Capture Detector Sample	No specific test data related to reactivity available for this product or its ingredients.
	Nitrogen/Phosphorus Detector Sample	No specific test data related to reactivity available for this product or its ingredients.
	Flame Photometric Detector Checkout Sample (40)	No specific test data related to reactivity available for this product or its ingredients.
	Headspace OQ/PV Standard	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Flame Ionization Detector (FID) Sample-0.33%(w/w)	The product is stable.
	Electron Capture Detector Sample	The product is stable.
	Nitrogen/Phosphorus Detector Sample	The product is stable.
	Flame Photometric Detector Checkout Sample (40)	The product is stable.
	Headspace OQ/PV Standard	The product is stable.
10.3 Possibility of hazardous reactions	: Flame Ionization Detector (FID) Sample-0.33%(w/w)	Under normal conditions of storage and use, hazardous reactions will not occur.
	Electron Capture Detector Sample	Under normal conditions of storage and use, hazardous reactions will not occur.
	Nitrogen/Phosphorus Detector Sample	Under normal conditions of storage and use, hazardous reactions will not occur.
	Flame Photometric Detector Checkout Sample (40)	Under normal conditions of storage and use, hazardous reactions will not occur.
	Headspace OQ/PV Standard	Under normal conditions of storage and use, hazardous reactions will not occur.

SECTION 10: Stability and reactivity

10.4 Conditions to avoid	:	Flame Ionization Detector (FID) Sample-0. 33%(w/w)	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.
		Electron Capture Detector Sample	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.
		Nitrogen/Phosphorus Detector Sample	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
		Flame Photometric Detector Checkout Sample (40)	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.
		Headspace OQ/PV Standard	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.
10.5 Incompatible materials	:	Flame Ionization Detector (FID) Sample-0. 33%(w/w)	Reactive or incompatible with the following materials: oxidizing materials
		Electron Capture Detector Sample	Reactive or incompatible with the following materials: oxidizing materials
		Nitrogen/Phosphorus Detector Sample	Reactive or incompatible with the following materials: oxidizing materials
		Flame Photometric Detector Checkout Sample (40)	Reactive or incompatible with the following materials: oxidizing materials
		Headspace OQ/PV Standard	Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	:	Flame Ionization Detector (FID) Sample-0. 33%(w/w)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		Electron Capture Detector Sample	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		Nitrogen/Phosphorus Detector Sample	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		Flame Photometric Detector Checkout Sample (40)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		Headspace OQ/PV Standard	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

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
Flame Ionization Detector (FID) Sample-0.33%(w/w) n-Hexane	LC50 Inhalation Vapour	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	15840 mg/kg	-
Electron Capture Detector Sample 2,2,4-trimethylpentane	LC50 Inhalation Vapour	Rat - Male, Female	>33.52 mg/l	4 hours
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
Nitrogen/Phosphorus Detector Sample 2,2,4-trimethylpentane	LC50 Inhalation Vapour	Rat - Male, Female	>33.52 mg/l	4 hours
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
Malathion (ISO)	LD50 Dermal	Rabbit	4100 mg/kg	-
	LD50 Oral	Rat	290 mg/kg	-
Flame Photometric Detector Checkout Sample (40) 2,2,4-trimethylpentane	LC50 Inhalation Vapour	Rat - Male, Female	>33.52 mg/l	4 hours
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
Headspace OQ/PV Standard Nitrobenzene	LC50 Inhalation Vapour	Rat	2800 mg/m ³	4 hours
	LC50 Inhalation Vapour	Rat	556 ppm	4 hours
	LD50 Dermal	Rabbit	760 mg/kg	-
	LD50 Dermal	Rat	2100 mg/kg	-
	LD50 Oral	Rat	349 mg/kg	-
	1,2-Dichlorobenzene	LC50 Inhalation Dusts and mists	Rat	8150 mg/m ³
LD50 Dermal		Rabbit	>10 g/kg	-
LD50 Oral		Rat	500 mg/kg	-

Acute toxicity estimates

Route	ATE value
Headspace OQ/PV Standard Oral Dermal Inhalation (vapours)	39745.7 mg/kg 302067.1 mg/kg 1112.9 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Flame Ionization Detector (FID) Sample-0.33%(w/w) n-Hexane	Eyes - Mild irritant	Rabbit	-	10 milligrams	-
Headspace OQ/PV Standard Nitrobenzene	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
1,2-Dichlorobenzene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100	-

SECTION 11: Toxicological information

				milligrams	
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Sensitiser

Conclusion/Summary : Not available.

Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity

Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Flame Ionization Detector (FID) Sample-0.33%(w/w) n-Hexane	Category 3	Not applicable.	Narcotic effects
Electron Capture Detector Sample 2,2,4-trimethylpentane	Category 3	Not applicable.	Narcotic effects
Nitrogen/Phosphorus Detector Sample 2,2,4-trimethylpentane	Category 3	Not applicable.	Narcotic effects
Flame Photometric Detector Checkout Sample (40) 2,2,4-trimethylpentane	Category 3	Not applicable.	Narcotic effects
Headspace OQ/PV Standard 1,2-Dichlorobenzene	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Flame Ionization Detector (FID) Sample-0.33%(w/w) n-Hexane	Category 2	Not determined	Not determined
Headspace OQ/PV Standard Nitrobenzene	Category 1	Not determined	blood system

Aspiration hazard

Product/ingredient name	Result
Flame Ionization Detector (FID) Sample-0.33%(w/w) Flame Ionization Detector (FID) Sample-0.33%(w/w) n-Hexane	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Electron Capture Detector Sample Electron Capture Detector Sample 2,2,4-trimethylpentane	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Nitrogen/Phosphorus Detector Sample Nitrogen/Phosphorus Detector Sample 2,2,4-trimethylpentane	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Flame Photometric Detector Checkout Sample (40) Flame Photometric Detector Checkout Sample (40) 2,2,4-trimethylpentane	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

<ul style="list-style-type: none"> Flame Ionization Detector (FID) Sample-0.33%(w/w) Electron Capture Detector Sample Nitrogen/Phosphorus Detector Sample Flame Photometric Detector Checkout Sample (40) Headspace OQ/PV Standard 	<ul style="list-style-type: none"> Routes of entry anticipated: Oral, Dermal, Inhalation.
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SECTION 11: Toxicological information

Potential acute health effects

Inhalation	: Flame Ionization Detector (FID) Sample-0.33%(w/w)	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
	: Electron Capture Detector Sample Nitrogen/Phosphorus	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
	: Flame Photometric Detector Checkout Sample (40)	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
	: Headspace OQ/PV Standard	No known significant effects or critical hazards.
Ingestion	: Flame Ionization Detector (FID) Sample-0.33%(w/w)	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
	: Electron Capture Detector Sample Nitrogen/Phosphorus	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
	: Flame Photometric Detector Checkout Sample (40)	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
	: Headspace OQ/PV Standard	No known significant effects or critical hazards.
Skin contact	: Flame Ionization Detector (FID) Sample-0.33%(w/w)	Causes skin irritation.
	: Electron Capture Detector Sample Nitrogen/Phosphorus	Causes skin irritation.
	: Flame Photometric Detector Checkout Sample (40)	Causes skin irritation.
	: Headspace OQ/PV Standard	No known significant effects or critical hazards.
Eye contact	: Flame Ionization Detector (FID) Sample-0.33%(w/w)	No known significant effects or critical hazards.
	: Electron Capture Detector Sample Nitrogen/Phosphorus	No known significant effects or critical hazards.
	: Flame Photometric Detector Checkout Sample (40)	No known significant effects or critical hazards.
	: Headspace OQ/PV Standard	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: Flame Ionization Detector (FID) Sample-0.33%(w/w)	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations
	: Electron Capture Detector Sample	Adverse symptoms may include the following:

SECTION 11: Toxicological information

Ingestion

		nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness Adverse symptoms may include the following:
	Nitrogen/Phosphorus Detector Sample	nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness Adverse symptoms may include the following:
	Flame Photometric Detector Checkout Sample (40)	nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness Adverse symptoms may include the following:
	Headspace OQ/PV Standard	No specific data.
	: Flame Ionization Detector (FID) Sample-0. 33%(w/w)	Adverse symptoms may include the following:
	Electron Capture Detector Sample	nausea or vomiting reduced foetal weight increase in foetal deaths skeletal malformations Adverse symptoms may include the following:
	Nitrogen/Phosphorus Detector Sample	nausea or vomiting Adverse symptoms may include the following:
	Flame Photometric Detector Checkout Sample (40)	nausea or vomiting Adverse symptoms may include the following:
	Headspace OQ/PV Standard	No specific data.

Skin contact

	: Flame Ionization Detector (FID) Sample-0. 33%(w/w)	Adverse symptoms may include the following:
	Electron Capture Detector Sample	irritation redness reduced foetal weight increase in foetal deaths skeletal malformations Adverse symptoms may include the following:
	Nitrogen/Phosphorus Detector Sample	irritation redness Adverse symptoms may include the following:
	Flame Photometric Detector Checkout Sample (40)	irritation redness Adverse symptoms may include the following:
	Headspace OQ/PV Standard	No specific data.

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Eye contact	: Flame Ionization Detector (FID) Sample-0. 33%(w/w)	Adverse symptoms may include the following: pain or irritation watering redness
	: Electron Capture Detector Sample	Adverse symptoms may include the following: pain or irritation watering redness
	: Nitrogen/Phosphorus Detector Sample	Adverse symptoms may include the following: pain or irritation watering redness
	: Flame Photometric Detector Checkout Sample (40)	Adverse symptoms may include the following: pain or irritation watering redness
	: Headspace OQ/PV Standard	No specific data.

Delayed and immediate effects as well as 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	: Flame Ionization Detector (FID) Sample-0. 33%(w/w)	May cause damage to organs through prolonged or repeated exposure.
	: Electron Capture Detector Sample	No known significant effects or critical hazards.
	: Nitrogen/Phosphorus Detector Sample	No known significant effects or critical hazards.
	: Flame Photometric Detector Checkout Sample (40)	No known significant effects or critical hazards.
	: Headspace OQ/PV Standard	No known significant effects or critical hazards.
	Carcinogenicity	: Flame Ionization Detector (FID) Sample-0. 33%(w/w)
: Electron Capture Detector Sample		No known significant effects or critical hazards.
: Nitrogen/Phosphorus Detector Sample		No known significant effects or critical hazards.
: Flame Photometric Detector Checkout Sample (40)		No known significant effects or critical hazards.
: Headspace OQ/PV Standard		No known significant effects or critical hazards.

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Mutagenicity	:	Flame Ionization Detector (FID) Sample-0. 33%(w/w)	No known significant effects or critical hazards.
		Electron Capture Detector Sample	No known significant effects or critical hazards.
		Nitrogen/Phosphorus Detector Sample	No known significant effects or critical hazards.
		Flame Photometric Detector Checkout Sample (40)	No known significant effects or critical hazards.
		Headspace OQ/PV Standard	No known significant effects or critical hazards.
Teratogenicity	:	Flame Ionization Detector (FID) Sample-0. 33%(w/w)	No known significant effects or critical hazards.
		Electron Capture Detector Sample	No known significant effects or critical hazards.
		Nitrogen/Phosphorus Detector Sample	No known significant effects or critical hazards.
		Flame Photometric Detector Checkout Sample (40)	No known significant effects or critical hazards.
		Headspace OQ/PV Standard	No known significant effects or critical hazards.
Developmental effects	:	Flame Ionization Detector (FID) Sample-0. 33%(w/w)	No known significant effects or critical hazards.
		Electron Capture Detector Sample	No known significant effects or critical hazards.
		Nitrogen/Phosphorus Detector Sample	No known significant effects or critical hazards.
		Flame Photometric Detector Checkout Sample (40)	No known significant effects or critical hazards.
		Headspace OQ/PV Standard	No known significant effects or critical hazards.
Fertility effects	:	Flame Ionization Detector (FID) Sample-0. 33%(w/w)	Suspected of damaging fertility.
		Electron Capture Detector Sample	No known significant effects or critical hazards.
		Nitrogen/Phosphorus Detector Sample	No known significant effects or critical hazards.
		Flame Photometric Detector Checkout Sample (40)	No known significant effects or critical hazards.
		Headspace OQ/PV Standard	No known significant effects or critical hazards.
Other information	:	Flame Ionization Detector (FID) Sample-0. 33%(w/w)	Adverse symptoms may include the following: Repeated exposure may cause skin dryness or cracking.
		Electron Capture Detector Sample	Not available.
		Nitrogen/Phosphorus Detector Sample	Not available.
		Flame Photometric Detector Checkout Sample (40)	Not available.
		Headspace OQ/PV Standard	Adverse symptoms may include the following: Repeated exposure may cause skin dryness or cracking.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Flame Ionization Detector (FID) Sample-0.33%(w/w) n-Hexane	Acute LC50 113000 µg/l Fresh water	Fish - Oreochromis mossambicus	96 hours
Nitrogen/Phosphorus Detector Sample Malathion (ISO)	Acute LC50 0.5 µg/l Fresh water	Crustaceans - Gammarus fasciatus	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 Marine water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 21 ppb	Fish - Oncorhynchus mykiss	97 days
Headspace OQ/PV Standard Nitrobenzene 1,2-Dichlorobenzene	Acute EC50 9.95 ppm Marine water	Algae - Skeletonema costatum	72 hours
	Acute EC50 9.65 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 5.86 ppm Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 7.2 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 44.1 mg/l Fresh water	Fish - Pimephales promelas - Larvae	96 hours
	Chronic NOEC 3200 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 2600 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Acute EC50 12.8 mg/l Fresh water	Algae - Phaeodactylum tricornutum	72 hours
	Acute EC50 2200 µg/l	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 740 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 1.55 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 4.52 ppm Marine water	Crustaceans - Americamysis bahia	48 hours
	Chronic NOEC 630 µg/l Fresh water	Daphnia - Daphnia magna	21 days

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Flame Ionization Detector (FID) Sample-0.33%(w/w) Flame Ionization Detector (FID) Sample-0.33%(w/w) n-Hexane	3.9 to 4.11	-	high
	4	501.187	high
Electron Capture Detector Sample 2,2,4-trimethylpentane	4.08	231	low
Nitrogen/Phosphorus Detector Sample 2,2,4-trimethylpentane	4.08	231	low

SECTION 12: Ecological information

Malathion (ISO)	2.36	33.11	low
Flame Photometric Detector Checkout Sample (40)			
2,2,4-trimethylpentane	4.08	231	low
Headspace OQ/PV Standard			
Nitrobenzene	1.86	3.1 to 4.8	low
1,2-Dichlorobenzene	3.38	150 to 230	low

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised 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.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : 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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

Regulatory information

ADR/RID / IMDG / IATA : Not regulated.

Additional information : **Remarks**
De minimis quantities

14.6 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.

SECTION 14: Transport information

14.7 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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Flame Ionization Detector (FID) Sample-0.33%(w/w) Not applicable.
 Electron Capture Detector Sample Not applicable.
 Nitrogen/Phosphorus Detector Sample Not applicable.
 Flame Photometric Detector Checkout Sample (40) Not applicable.
 Headspace OQ/PV Standard Not applicable.

Other EU regulations

Europe inventory : All components are listed or exempted.

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
Flame Ionization Detector (FID) Sample-0.33%(w/w) n-hexane	-	-	-	Repr. 2, H361f (Fertility)
Headspace OQ/PV Standard nitrobenzene	Carc. 2, H351	-	-	Repr. 1B, H360F (Fertility)

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category
<p>Flame Ionization Detector (FID) Sample-0.33%(w/w) P5c: Flammable liquids 2 and 3 not falling under P5a or P5b E2: Hazardous to the aquatic environment - Chronic 2</p> <p>Electron Capture Detector Sample P5c: Flammable liquids 2 and 3 not falling under P5a or P5b E1: Hazardous to the aquatic environment - Acute 1 or Chronic 1</p> <p>Nitrogen/Phosphorus Detector Sample P5c: Flammable liquids 2 and 3 not falling under P5a or P5b E1: Hazardous to the aquatic environment - Acute 1 or Chronic 1</p> <p>Flame Photometric Detector Checkout Sample (40) P5c: Flammable liquids 2 and 3 not falling under P5a or P5b E1: Hazardous to the aquatic environment - Acute 1 or Chronic 1</p>

SECTION 15: Regulatory information

Headspace OQ/PV Standard

P5c: Flammable liquids 2 and 3 not falling under P5a or P5b

[National regulations](#)

[International regulations](#)

[Chemical Weapon Convention List Schedules I, II & III Chemicals](#)

Not listed.

[Montreal Protocol \(Annexes A, B, C, E\)](#)

Not listed.

[Stockholm Convention on Persistent Organic Pollutants](#)

Not listed.

[Rotterdam Convention on Prior Inform Consent \(PIC\)](#)

Not listed.

[UNECE Aarhus Protocol on POPs and Heavy Metals](#)

Not listed.

[International lists](#)

[National inventory](#)

Australia	: All components are listed or exempted.
Canada	: Not determined.
China	: Not determined.
Japan	: Japan inventory (ENCS) : Not determined. Japan inventory (ISHL) : Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: All components are listed or exempted.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Turkey	: Not determined.
United States	: Not determined.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number

[Procedure used to derive the classification according to Regulation \(EC\) No. 1272/2008 \[CLP/GHS\]](#)

SECTION 16: Other information

Classification	Justification
<p>Flame Ionization Detector (FID) Sample-0.33%(w/w) Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361f (Fertility) STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411</p>	<p>On basis of test data Calculation method Calculation method Calculation method Calculation method Expert judgment Calculation method</p>
<p>Electron Capture Detector Sample Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</p>	<p>On basis of test data Calculation method Calculation method Expert judgment Calculation method Calculation method</p>
<p>Nitrogen/Phosphorus Detector Sample Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</p>	<p>On basis of test data Calculation method Calculation method Expert judgment Calculation method Calculation method</p>
<p>Flame Photometric Detector Checkout Sample (40) Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</p>	<p>On basis of test data Calculation method Calculation method Expert judgment Calculation method Calculation method</p>
<p>Headspace OQ/PV Standard Flam. Liq. 2, H225 Aquatic Chronic 3, H412</p>	<p>On basis of test data Calculation method</p>

<p>Full text of abbreviated H statements</p>	<p>: Flame Ionization Detector (FID) Sample-0.33%(w/w) H225 H304 H315 H336 H361f (Fertility) H373 H411</p> <p>Electron Capture Detector Sample H225 H304 H315 H336 H400 H410</p> <p>Nitrogen/Phosphorus Detector Sample H225 H302 H304</p>	<p>Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.</p> <p>Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.</p> <p>Highly flammable liquid and vapour. Harmful if swallowed. May be fatal if swallowed and enters airways.</p>
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SECTION 16: Other information

H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H336 May cause drowsiness or dizziness.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

Flame Photometric Detector Checkout Sample (40)

H225 Highly flammable liquid and vapour.
 H304 May be fatal if swallowed and enters airways.
 H315 Causes skin irritation.
 H336 May cause drowsiness or dizziness.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

Headspace OQ/PV Standard

H225 Highly flammable liquid and vapour.
 H301 Toxic if swallowed.
 H302 Harmful if swallowed.
 H311 Toxic in contact with skin.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H331 Toxic if inhaled.
 H335 May cause respiratory irritation.
 H351 Suspected of causing cancer.
 H360F (Fertility) May damage fertility.
 H372 (blood system) Causes damage to organs through prolonged or repeated exposure. (blood system)
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Flame Ionization Detector (FID) Sample- 0.33%(w/w)

Aquatic Chronic 2, H411 LONG-TERM AQUATIC HAZARD - Category 2
 Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1
 Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2
 Repr. 2, H361f (Fertility) TOXIC TO REPRODUCTION (Fertility) - Category 2
 Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2
 STOT RE 2, H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
 STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

Electron Capture Detector Sample

Aquatic Acute 1, H400 ACUTE AQUATIC HAZARD - Category 1
 Aquatic Chronic 1, H410 LONG-TERM AQUATIC HAZARD - Category 1
 Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1
 Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2
 Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2
 STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

Nitrogen/Phosphorus Detector Sample

Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4
 Aquatic Acute 1, H400 ACUTE AQUATIC HAZARD - Category 1
 Aquatic Chronic 1, H410 LONG-TERM AQUATIC HAZARD - Category 1
 Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1
 Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2
 Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2

SECTION 16: Other information

Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1
 STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

Flame Photometric Detector Checkout Sample (40)

Aquatic Acute 1, H400 ACUTE AQUATIC HAZARD - Category 1
 Aquatic Chronic 1, H410 LONG-TERM AQUATIC HAZARD - Category 1
 Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1
 Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2
 Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2
 STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

Headspace OQ/PV Standard

Acute Tox. 3, H301 ACUTE TOXICITY (oral) - Category 3
 Acute Tox. 3, H311 ACUTE TOXICITY (dermal) - Category 3
 Acute Tox. 3, H331 ACUTE TOXICITY (inhalation) - Category 3
 Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4
 Aquatic Acute 1, H400 ACUTE AQUATIC HAZARD - Category 1
 Aquatic Chronic 1, H410 LONG-TERM AQUATIC HAZARD - Category 1
 Aquatic Chronic 3, H412 LONG-TERM AQUATIC HAZARD - Category 3
 Carc. 2, H351 CARCINOGENICITY - Category 2
 Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
 Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2
 Repr. 1B, H360F (Fertility) TOXIC TO REPRODUCTION (Fertility) - Category 1B
 Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2
 STOT RE 1, H372 (blood system) SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system) - Category 1
 STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

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Notice to reader

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