

# SAFETY DATA SHEET



GC Checkout Standards Kit, Part Number 5188-5358

## Section 1. Identification

<b>Product identifier</b>	: GC Checkout Standards Kit, Part Number 5188-5358	
<b>Part No. (Chemical Kit)</b>	: 5188-5358	
<b>Part No.</b>	: Flame Ionization Detector (FID) Sample- 0.33%(w/w)	5080-8842
	: Electron Capture Detector Sample	18713-60040-1
	: Nitrogen/Phosphorus Detector Sample	18789-60060-1
	: Flame Photometric Detector Checkout Sample (40)	5188-5953-1
	: Headspace OQ/PV Standard	5182-9733-1

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

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

**Supplier/Manufacturer** : Agilent Technologies Australia Pty Ltd  
679 Springvale Road  
Mulgrave  
Victoria 3170, Australia  
1800 802 402

**Emergency telephone number (with hours of operation)** : CHEMTREC®: (61)-290372994

## Section 2. Hazard(s) identification

### Classification of the substance or mixture

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

H225	FLAMMABLE LIQUIDS - Category 2
H315	SKIN CORROSION/IRRITATION - Category 2
H361	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
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## Section 2. Hazard(s) identification

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
H402	ACUTE AQUATIC HAZARD - Category 3
H412	LONG-TERM AQUATIC HAZARD - Category 3

### GHS label elements

#### Hazard pictograms



#### 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)	H225 - Highly flammable liquid and vapour. H315 - Causes skin irritation. H361 - Suspected of damaging fertility. H304 - May be fatal if swallowed and enters airways. H336 - May cause drowsiness or dizziness. H373 - May cause damage to organs through prolonged or repeated exposure. H411 - Toxic to aquatic life with long lasting effects.
Electron Capture Detector Sample	H225 - Highly flammable liquid and vapour. H315 - Causes skin irritation. H304 - May be fatal if swallowed and enters airways. H336 - May cause drowsiness or dizziness. H410 - Very toxic to aquatic life with long lasting effects.
Nitrogen/Phosphorus Detector Sample	H225 - Highly flammable liquid and vapour. H315 - Causes skin irritation. H304 - May be fatal if swallowed and enters airways. H336 - May cause drowsiness or dizziness. H410 - Very toxic to aquatic life with long lasting effects.
Flame Photometric Detector Checkout Sample (40)	H225 - Highly flammable liquid and vapour.

## Section 2. Hazard(s) identification

H315 - Causes skin irritation.  
 H304 - May be fatal if swallowed and enters airways.  
 H336 - May cause drowsiness or dizziness.  
 H410 - Very toxic to aquatic life with long lasting effects.  
 H225 - Highly flammable liquid and vapour.  
 H412 - Harmful to aquatic life with long lasting effects.

Headspace OQ/PV Standard

### Precautionary statements

#### Prevention

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

P201 - Obtain special instructions before use.  
 P202 - Do not handle until all safety precautions have been read and understood.  
 P281 - Use personal protective equipment as required.  
 P280 - Wear protective gloves. Wear eye or face protection.  
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.  
 P242 - Use only non-sparking tools.  
 P243 - Take precautionary measures against static discharge.

Electron Capture Detector Sample

P233 - Keep container tightly closed.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P273 - Avoid release to the environment.  
 P260 - Do not breathe vapour.  
 P264 - Wash hands thoroughly after handling.  
 P280 - Wear protective gloves. Wear eye or face protection.  
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.  
 P242 - Use only non-sparking tools.  
 P243 - Take precautionary measures against static discharge.

Nitrogen/Phosphorus Detector Sample

P233 - Keep container tightly closed.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P273 - Avoid release to the environment.  
 P261 - Avoid breathing vapour.  
 P264 - Wash hands thoroughly after handling.  
 P280 - Wear protective gloves. Wear eye or face protection.  
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.  
 P242 - Use only non-sparking tools.  
 P243 - Take precautionary measures against static discharge.

Flame Photometric Detector Checkout Sample (40)

P233 - Keep container tightly closed.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P273 - Avoid release to the environment.  
 P261 - Avoid breathing vapour.  
 P264 - Wash hands thoroughly after handling.  
 P280 - Wear protective gloves. Wear eye or face protection.  
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.  
 P242 - Use only non-sparking tools.

## Section 2. Hazard(s) identification

	<p>Headspace OQ/PV Standard</p>	<p>P243 - Take precautionary measures against static discharge.                  P233 - Keep container tightly closed.                  P271 - Use only outdoors or in a well-ventilated area.                  P273 - Avoid release to the environment.                  P261 - Avoid breathing vapour.                  P264 - Wash hands thoroughly after handling.                  P280 - Wear protective gloves. Wear eye or face protection.                  P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                  P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.                  P242 - Use only non-sparking tools.                  P243 - Take precautionary measures against static discharge.                  P233 - Keep container tightly closed.                  P273 - Avoid release to the environment.                  P391 - Collect spillage.</p>
<p><b>Response</b></p>	<p>: Flame Ionization Detector (FID) Sample-0.33%(w/w)</p>	<p>P314 - Get medical attention if you feel unwell.                  P308 + P313 - IF exposed or concerned: Get medical attention.                  P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.                  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.                  P302 + P352 + P362-2 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing.                  P332 + P313 - If skin irritation occurs: Get medical attention.                  P391 - Collect spillage.</p>
	<p>Electron Capture Detector Sample</p>	<p>P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.                  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.                  P302 + P352 + P362-2 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing.                  P332 + P313 - If skin irritation occurs: Get medical attention.                  P391 - Collect spillage.</p>
	<p>Nitrogen/Phosphorus Detector Sample</p>	<p>P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.                  P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician.</p>

## Section 2. Hazard(s) identification

Do NOT induce vomiting.  
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P302 + P352 + P362-2 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing.  
 P332 + P313 - If skin irritation occurs: Get medical attention.  
 P391 - Collect spillage.

Flame Photometric Detector  
 Checkout Sample (40)

P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.  
 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.  
 P302 + P352 + P362-2 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing.  
 P332 + P313 - If skin irritation occurs: Get medical attention.

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)

P405 - Store locked up.

P403 - Store in a well-ventilated place.

P235 - Keep cool.

Electron Capture Detector  
 Sample

P405 - Store locked up.

P403 - Store in a well-ventilated place.

P235 - Keep cool.

Nitrogen/Phosphorus  
 Detector Sample

P405 - Store locked up.

P403 - Store in a well-ventilated place.

P235 - Keep cool.

Flame Photometric Detector  
 Checkout Sample (40)

P405 - Store locked up.

P403 - Store in a well-ventilated place.

P235 - Keep cool.

Headspace OQ/PV Standard

P403 - Store in a well-ventilated place.

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.

## Section 2. Hazard(s) identification

**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.

**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 and ingredient information

**Substance/mixture** :

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

### CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
<b>Flame Ionization Detector (FID) Sample-0.33%(w/w)</b> n-Hexane	≥90	110-54-3
<b>Electron Capture Detector Sample</b> 2,2,4-trimethylpentane	≥90	540-84-1
<b>Nitrogen/Phosphorus Detector Sample</b> 2,2,4-trimethylpentane	≥90	540-84-1
<b>Flame Photometric Detector Checkout Sample (40)</b> 2,2,4-trimethylpentane	≥90	540-84-1
<b>Headspace OQ/PV Standard</b> Ethanol	≥90	64-17-5
1,2-Dichlorobenzene	≤0.3	95-50-1

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

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

## Section 4. First aid measures

### Description of necessary first aid measures

<b>Eye contact</b>	: 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.
<b>Inhalation</b>	: 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

## Section 4. First aid measures

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 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

## Section 4. First aid measures

Electron Capture Detector  
Sample

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. 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.

Nitrogen/Phosphorus  
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.

Flame Photometric Detector  
Checkout Sample (40)

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.

Headspace OQ/PV Standard

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

## Section 4. First aid measures

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.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

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

#### Over-exposure signs/symptoms

<b>Eye contact</b>	:	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	Adverse symptoms may include the following:

## Section 4. First aid measures

	Checkout Sample (40)	pain or irritation watering redness
<b>Inhalation</b>	Headspace OQ/PV Standard	No specific data.
	: 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
<b>Skin contact</b>	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.
	: 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.

## Section 4. First aid measures

<b>Ingestion</b>	: 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.
<b><u>Indication of immediate medical attention and special treatment needed, if necessary</u></b>		
<b>Notes to physician</b>	: 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.
<b>Specific treatments</b>	: Flame Ionization Detector (FID) Sample-0.33%(w/w)	No specific treatment.
	Electron Capture Detector Sample	No specific treatment.
	Nitrogen/Phosphorus Detector Sample	No specific treatment.
	Flame Photometric Detector Checkout Sample (40)	No specific treatment.
	Headspace OQ/PV Standard	No specific treatment.
<b>Protection of first-aiders</b>	: Flame Ionization Detector (FID) Sample-0.33%(w/w)	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.
	Electron Capture Detector Sample	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.
	Nitrogen/Phosphorus Detector Sample	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.
	Flame Photometric Detector Checkout Sample (40)	No action shall be taken involving any personal risk or without suitable training. If it is suspected that

## Section 4. First aid measures

Headspace OQ/PV Standard

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. 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.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

#### Suitable extinguishing media

- : Flame Ionization Detector (FID) Sample-0.33%(w/w) Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Electron Capture Detector Sample Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Nitrogen/Phosphorus Detector Sample Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Flame Photometric Detector Checkout Sample (40) Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Headspace OQ/PV Standard Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

#### Unsuitable extinguishing media

- : Flame Ionization Detector (FID) Sample-0.33%(w/w) Do not use water jet.
- Electron Capture Detector Sample Do not use water jet.
- Nitrogen/Phosphorus Detector Sample Do not use water jet.
- Flame Photometric Detector Checkout Sample (40) Do not use water jet.
- Headspace OQ/PV Standard Do not use water jet.

#### Specific hazards arising from the chemical

- : Flame Ionization Detector (FID) Sample-0.33%(w/w) 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.
- 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 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.
- Nitrogen/Phosphorus 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. Runoff to sewer may create fire or explosion hazard. This material is very toxic to

## Section 5. Firefighting measures

		<p>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.</p> <p>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.</p>
	Flame Photometric Detector Checkout Sample (40)	<p>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.</p>
	Headspace OQ/PV Standard	<p>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.</p>
<b>Hazardous thermal decomposition products</b>	: Flame Ionization Detector (FID) Sample-0.33%(w/w)	<p>Decomposition products may include the following materials: carbon dioxide carbon monoxide</p>
	Electron Capture Detector Sample	<p>Decomposition products may include the following materials: carbon dioxide carbon monoxide</p>
	Nitrogen/Phosphorus Detector Sample	<p>Decomposition products may include the following materials: carbon dioxide carbon monoxide</p>
	Flame Photometric Detector Checkout Sample (40)	<p>Decomposition products may include the following materials: carbon dioxide carbon monoxide</p>
	Headspace OQ/PV Standard	<p>Decomposition products may include the following materials: carbon dioxide carbon monoxide</p>
<b>Special protective actions for fire-fighters</b>	: Flame Ionization Detector (FID) Sample-0.33%(w/w)	<p>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.</p>
	Electron Capture Detector Sample	<p>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.</p>
	Nitrogen/Phosphorus	<p>Promptly isolate the scene by removing all persons</p>

## Section 5. Firefighting measures

	Detector Sample	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.
<b>Special protective equipment for fire-fighters</b>	: 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.
	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.
	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.
	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.
	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.
<b>Hazchem code</b>	: Flame Ionization Detector (FID) Sample-0.33%(w/w)	3YE
	Electron Capture Detector Sample	3YE
	Nitrogen/Phosphorus Detector Sample	3YE
	Flame Photometric Detector Checkout Sample (40)	3YE
	Headspace OQ/PV Standard	•2YE

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	: 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 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.
	Electron Capture Detector Sample	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected

## Section 6. Accidental release measures

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.

Nitrogen/Phosphorus  
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 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.

Flame Photometric Detector  
Checkout Sample (40)

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.

Headspace OQ/PV Standard

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.

**For emergency responders :** Flame Ionization Detector  
(FID) Sample-0.33%(w/w)

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".

Electron Capture Detector  
Sample

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".

Nitrogen/Phosphorus  
Detector Sample

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".

Flame Photometric Detector  
Checkout Sample (40)

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".

Headspace OQ/PV Standard

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".

## Section 6. Accidental release measures

<b>Environmental precautions</b>	: Flame Ionization Detector (FID) Sample-0.33%(w/w)	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.
	Electron Capture Detector Sample	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.
	Nitrogen/Phosphorus Detector Sample	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.

### Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	: Flame Ionization Detector (FID) Sample-0.33%(w/w)	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.
	Electron Capture Detector Sample	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.
	Nitrogen/Phosphorus Detector Sample	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.
	Flame Photometric Detector Checkout Sample (40)	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

## Section 6. Accidental release measures

Headspace OQ/PV Standard	waste disposal contractor. 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.
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## Section 7. Handling and storage

### 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

## Section 7. Handling and storage

Flame Photometric Detector  
Checkout Sample (40)

measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.  
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.

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

## Section 7. Handling and storage

<p>Headspace OQ/PV Standard</p>	<p>before entering eating areas. See also Section 8 for additional information on hygiene measures.</p> <p>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.</p>
<p><b>Conditions for safe storage, including any incompatibilities</b> : Flame Ionization Detector (FID) Sample-0.33%(w/w)</p>	<p>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.</p>
<p>Electron Capture Detector Sample</p>	<p>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.</p>
<p>Nitrogen/Phosphorus Detector Sample</p>	<p>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.</p>
<p>Flame Photometric Detector Checkout Sample (40)</p>	<p>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.</p>
<p>Headspace OQ/PV Standard</p>	<p>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.</p>

## Section 7. Handling and storage

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.

## Section 8. Exposure controls and personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
<b>Flame Ionization Detector (FID) Sample-0.33%(w/w)</b> n-Hexane	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 72 mg/m <sup>3</sup> 8 hours. TWA: 20 ppm 8 hours.
<b>Electron Capture Detector Sample</b> 2,2,4-trimethylpentane	<b>ACGIH TLV (United States, 3/2015).</b> TWA: 300 ppm 8 hours.
<b>Nitrogen/Phosphorus Detector Sample</b> 2,2,4-trimethylpentane	<b>ACGIH TLV (United States, 3/2015).</b> TWA: 300 ppm 8 hours.
<b>Flame Photometric Detector Checkout Sample (40)</b> 2,2,4-trimethylpentane	<b>ACGIH TLV (United States, 3/2015).</b> TWA: 300 ppm 8 hours.
<b>Headspace OQ/PV Standard</b> Ethanol	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 1880 mg/m <sup>3</sup> 8 hours. TWA: 1000 ppm 8 hours.
1,2-Dichlorobenzene	<b>Safe Work Australia (Australia, 1/2014).</b> STEL: 50 ppm 15 minutes. STEL: 301 mg/m <sup>3</sup> 15 minutes. TWA: 25 ppm 8 hours. TWA: 150 mg/m <sup>3</sup> 8 hours.

### 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.

### Environmental exposure controls

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

### Individual protection measures

#### Hygiene measures

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

## Section 8. Exposure controls and personal protection

- 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.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### 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) | Colourless.        |
| 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) | Gasoline-like     |
| 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. |

## Section 9. Physical and chemical properties

<b>Odour threshold</b>	:	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.
<b>pH</b>	:	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.
<b>Melting point</b>	:	Flame Ionization Detector (FID) Sample-0.33%(w/w)	-100 to -95°C (-148 to -139°F)
		Electron Capture Detector Sample	-107°C (-160.6°F)
		Nitrogen/Phosphorus Detector Sample	Not available.
		Flame Photometric Detector Checkout Sample (40)	-107°C (-160.6°F)
		Headspace OQ/PV Standard	-117°C (-178.6°F)
<b>Boiling point</b>	:	Flame Ionization Detector (FID) Sample-0.33%(w/w)	69°C (156.2°F)
		Electron Capture Detector Sample	99°C (210.2°F)
		Nitrogen/Phosphorus Detector Sample	Not available.
		Flame Photometric Detector Checkout Sample (40)	99.2°C (210.6°F)
		Headspace OQ/PV Standard	78.3°C (172.9°F)
<b>Flash point</b>	:	Flame Ionization Detector (FID) Sample-0.33%(w/w)	Closed cup: -22°C (-7.6°F) [Tagliabue.]
		Electron Capture Detector Sample	Closed cup: -18 to 23°C (-0.4 to 73.4°F)
		Nitrogen/Phosphorus Detector Sample	Closed cup: -18 to 23°C (-0.4 to 73.4°F)
		Flame Photometric Detector Checkout Sample (40)	Open cup: 4.5°C (40.1°F)
		Headspace OQ/PV Standard	Open cup: 12.7°C (54.9°F)
<b>Evaporation rate</b>	:	Flame Ionization Detector (FID) Sample-0.33%(w/w)	Not available.
		Electron Capture Detector Sample	>1 (butyl acetate = 1)
		Nitrogen/Phosphorus Detector Sample	Not available.
		Flame Photometric Detector Checkout Sample (40)	Not available.
		Headspace OQ/PV Standard	>4 (butyl acetate = 1)
<b>Flammability (solid, gas)</b>	:	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	Not applicable.

## Section 9. Physical and chemical properties

	Checkout Sample (40)	
	Headspace OQ/PV Standard	Not applicable.
<b>Lower and upper explosive (flammable) limits</b>	: Flame Ionization Detector (FID) Sample-0.33%(w/w)	Lower: 1.1%
		Upper: 7.5%
	Electron Capture Detector Sample	Lower: 1.1%
		Upper: 6%
	Nitrogen/Phosphorus Detector Sample	Not available.
	Flame Photometric Detector Checkout Sample (40)	Lower: 1%
		Upper: 6%
	Headspace OQ/PV Standard	Lower: 3.3%
		Upper: 19%
<b>Vapour pressure</b>	: Flame Ionization Detector (FID) Sample-0.33%(w/w)	20 kPa (150 mm Hg) [room temperature]
	Electron Capture Detector Sample	Not available.
	Nitrogen/Phosphorus Detector Sample	Not available.
	Flame Photometric Detector Checkout Sample (40)	5.5 kPa (41 mm Hg) [room temperature]
	Headspace OQ/PV Standard	5.7 kPa (43 mm Hg) [room temperature]
<b>Vapour density</b>	: 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]
<b>Relative density</b>	: 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.
<b>Solubility</b>	: 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.
		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.

## Section 9. Physical and chemical properties

<b>Partition coefficient: n-octanol/water</b>	:	Flame Ionization Detector (FID) Sample-0.33%(w/w)	3.9 to 4.11
		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.
<b>Auto-ignition temperature</b>	:	Flame Ionization Detector (FID) Sample-0.33%(w/w)	Not available.
		Electron Capture Detector Sample	417°C (782.6°F)
		Nitrogen/Phosphorus Detector Sample	Not available.
		Flame Photometric Detector Checkout Sample (40)	418°C (784.4°F)
		Headspace OQ/PV Standard	422°C (791.6°F)
<b>Decomposition temperature</b>	:	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.
<b>Viscosity</b>	:	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.

## Section 10. Stability and reactivity

<b>Reactivity</b>	:	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.
<b>Chemical stability</b>	:	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.

## Section 10. Stability and reactivity

<b>Possibility of hazardous reactions</b>	: 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.
<b>Conditions to avoid</b>	: 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.
<b>Incompatible materials</b>	: 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
<b>Hazardous decomposition products</b>	: 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.

## Section 10. Stability and reactivity

Headspace OQ/PV Standard Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>Flame Ionization Detector (FID) Sample-0.33%(w/w)</b> n-Hexane	LC50 Inhalation Vapour LD50 Oral	Rat Rat	48000 ppm 15840 mg/kg	4 hours -
<b>Electron Capture Detector Sample</b> 2,2,4-trimethylpentane	LC50 Inhalation Vapour LD50 Oral	Rat - Male, Female Rat - Male, Female	>33.52 mg/l >5000 mg/kg	4 hours -
<b>Nitrogen/Phosphorus Detector Sample</b> 2,2,4-trimethylpentane	LC50 Inhalation Vapour LD50 Oral	Rat - Male, Female Rat - Male, Female	>33.52 mg/l >5000 mg/kg	4 hours -
<b>Flame Photometric Detector Checkout Sample (40)</b> 2,2,4-trimethylpentane	LC50 Inhalation Vapour LD50 Oral	Rat - Male, Female Rat - Male, Female	>33.52 mg/l >5000 mg/kg	4 hours -
<b>Headspace OQ/PV Standard</b> Ethanol	LC50 Inhalation Vapour LD50 Oral	Rat Rat	124700 mg/m <sup>3</sup> 7 g/kg	4 hours -
1,2-Dichlorobenzene	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rat Rabbit Rat	8150 mg/m <sup>3</sup> >10 g/kg 500 mg/kg	4 hours - -

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>Flame Ionization Detector (FID) Sample-0.33%(w/w)</b> n-Hexane	Eyes - Mild irritant	Rabbit	-	10 milligrams	-
<b>Headspace OQ/PV Standard</b> Ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	0.06666667 minutes 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	100 microliters	-
	Skin - Mild irritant	Rabbit	-	400 milligrams	-

## Section 11. Toxicological information

1,2-Dichlorobenzene	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 milligrams	-

### Sensitisation

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

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

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
<b>Flame Ionization Detector (FID) Sample-0.33%(w/w)</b> n-Hexane	Category 2	Not determined	Not determined

### Aspiration hazard

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

## Section 11. Toxicological information

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

ASPIRATION HAZARD - Category 1  
ASPIRATION HAZARD - Category 1

**Information on likely routes of exposure** :

- Flame Ionization Detector (FID) Sample-0.33%(w/w) Routes of entry anticipated: Oral, Dermal, Inhalation.
- Electron Capture Detector Sample Routes of entry anticipated: Oral, Dermal, Inhalation.
- Nitrogen/Phosphorus Detector Sample Routes of entry anticipated: Oral, Dermal, Inhalation.
- Flame Photometric Detector Checkout Sample (40) Routes of entry anticipated: Oral, Dermal, Inhalation.
- Headspace OQ/PV Standard Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

#### Eye contact

- 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.

#### 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 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Nitrogen/Phosphorus Detector Sample 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.

#### Skin contact

- Flame Ionization Detector (FID) Sample-0.33%(w/w) Causes skin irritation.
- Electron Capture Detector Sample Causes skin irritation.
- Nitrogen/Phosphorus Detector Sample Causes skin irritation.
- Flame Photometric Detector Checkout Sample (40) Causes skin irritation.
- 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 Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
- Nitrogen/Phosphorus Detector Sample 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.

### Symptoms related to the physical, chemical and toxicological characteristics

#### 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

## Section 11. Toxicological information

	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.
<b>Inhalation</b>	: 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.
<b>Skin contact</b>	: 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.

## Section 11. Toxicological information

<b>Ingestion</b>	: 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.

### 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

Not available.

<b>General</b>	: 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	May cause damage to organs through prolonged or repeated exposure. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: 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.
<b>Mutagenicity</b>	: 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.

## Section 11. Toxicological information

<b>Teratogenicity</b>	: 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.
<b>Developmental effects</b>	: 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.
<b>Fertility effects</b>	: 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	Suspected of damaging fertility. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

<b>Other information</b>	: 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	Adverse symptoms may include the following: Repeated exposure may cause skin dryness or cracking. Not available. Not available. Not available. Adverse symptoms may include the following: Repeated exposure may cause skin dryness or cracking.
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## Section 12. Ecological information

### 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
Headspace OQ/PV Standard Ethanol	Acute EC50 17.921 mg/l Marine water Acute EC50 2000 µg/l Fresh water Acute LC50 25500 µg/l Marine water	Algae - Ulva pertusa Daphnia - Daphnia magna Crustaceans - Artemia	96 hours 48 hours 48 hours

## Section 12. Ecological information

1,2-Dichlorobenzene	Acute LC50 42000 µg/l Fresh water	franciscana - Larvae	4 days
	Chronic NOEC 4.995 mg/l Marine water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.375 ul/L Fresh water	Algae - Ulva pertusa	12 weeks
	Acute EC50 12.8 mg/l Fresh water	Fish - Gambusia holbrooki - Larvae	72 hours
	Acute EC50 2200 µg/l	Algae - Phaeodactylum tricorutum	96 hours
	Acute EC50 740 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	48 hours
	Acute EC50 1.55 mg/l Fresh water	Daphnia - Daphnia magna	96 hours
Acute LC50 4.52 ppm Marine water	Fish - Oncorhynchus mykiss	48 hours	
Chronic NOEC 630 µg/l Fresh water	Crustaceans - Americamysis bahia	21 days	
		Daphnia - Daphnia magna	

### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Headspace OQ/PV Standard Ethanol	-	-	Readily

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Flame Ionization Detector (FID) Sample-0.33%(w/w)	3.9 to 4.11	-	high
Flame Ionization Detector (FID) Sample-0.33%(w/w)			
n-Hexane	4	501.187	high
<b>Electron Capture Detector Sample</b>			
2,2,4-trimethylpentane	4.08	231	low
<b>Nitrogen/Phosphorus Detector Sample</b>			
2,2,4-trimethylpentane	4.08	231	low
<b>Flame Photometric Detector Checkout Sample (40)</b>			
2,2,4-trimethylpentane	4.08	231	low
<b>Headspace OQ/PV Standard</b>			
Ethanol	-0.35	-	low
1,2-Dichlorobenzene	3.38	150 to 230	low

### Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

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

## Section 13. Disposal considerations

**Disposal methods** : ☒ 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. 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

**ADG / IMDG / IATA** : Not regulated as Dangerous Goods according to the ADG Code .

**Additional information** : **Remarks**  
De minimis quantities

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

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

## Section 15. Regulatory information

### Standard Uniform Schedule of Medicine and Poisons

6

### Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

**Australia inventory (AICS)** : All components are listed or exempted.

### 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

**Canada** : Not determined.

**China** : ☒ Not determined.

## Section 15. Regulatory information

<b>Europe</b>	: All components are listed or exempted.
<b>Japan</b>	: <b>Japan inventory (ENCS):</b> Not determined. <b>Japan inventory (ISHL):</b> Not determined.
<b>Malaysia</b>	: Not determined.
<b>New Zealand</b>	: Not determined.
<b>Philippines</b>	: All components are listed or exempted.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: Not determined.

## Section 16. Any other relevant information

### History

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

**Date of previous issue** : 28/05/2014.

**Version** : 6

### Key to abbreviations

: ADG = Australian Dangerous Goods  
 ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 NOHSC = National Occupational Health and Safety Commission  
 SUSMP = Standard Uniform Schedule of Medicine and Poisons  
 UN = United Nations

### Procedure used to derive the classification

Classification	Justification
<b>Flame Ionization Detector (FID) Sample-0.33%(w/w)</b> Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 (Fertility) STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	On basis of test data Calculation method Calculation method Calculation method Calculation method Expert judgment Calculation method
<b>Electron Capture Detector Sample</b> Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	On basis of test data Calculation method Calculation method Expert judgment Calculation method Calculation method
<b>Nitrogen/Phosphorus Detector Sample</b> Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	On basis of test data Calculation method Calculation method Expert judgment Calculation method Calculation method

## Section 16. Any other relevant information

<p><b>Flame Photometric Detector Checkout Sample (40)</b>                  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><b>Headspace OQ/PV Standard</b>                  Flam. Liq. 2, H225                  Aquatic Acute 3, H402                  Aquatic Chronic 3, H412</p>	<p>On basis of test data                  Calculation method                  Calculation method                  Expert judgment                  Calculation method                  Calculation method</p> <p>On basis of test data                  Calculation method                  Calculation method</p>
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**References** : Not available.

Indicates information that has changed from previously issued version.

**Notice to reader**

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