

# SAFETY DATA SHEET



GC/MS Checkout Sample, Part Number 05970-60045

## Section 1. Identification

**Product identifier** : GC/MS Checkout Sample, Part Number 05970-60045  
**Part No. (Chemical Kit)** : 05970-60045  
**Part No.** : GC/MS Checkout Sample (10 ng/uL) 05970-60045-1  
 GC/MS Checkout Sample (100 pg/uL) 05970-60045-2  
 GC/MS Checkout Sample (100 ng/uL) 05970-60045-3

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

Analytical chemistry.

GC/MS Checkout Sample (10 ng/uL) 1 x 1 ml  
 GC/MS Checkout Sample (100 pg/uL) 1 x 1 ml  
 GC/MS Checkout Sample (100 ng/uL) 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

#### GC/MS Checkout Sample (10 ng/uL)

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

#### GC/MS Checkout Sample (100 pg/uL)

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

#### GC/MS Checkout Sample (100 ng/uL)

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

## Section 2. Hazard(s) identification

### GHS label elements

#### Hazard pictograms



#### Signal word

GC/MS Checkout Sample (10 ng/uL)	DANGER
GC/MS Checkout Sample (100 pg/uL)	DANGER
GC/MS Checkout Sample (100 ng/uL)	DANGER

#### Hazard statements

GC/MS Checkout Sample (10 ng/uL)	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.
GC/MS Checkout Sample (100 pg/uL)	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.
GC/MS Checkout Sample (100 ng/uL)	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.

### Precautionary statements

#### Prevention

GC/MS Checkout Sample (10 ng/uL)	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. 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.
GC/MS Checkout Sample (100 pg/uL)	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. 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.

## Section 2. Hazard(s) identification

	GC/MS Checkout Sample (100 ng/uL)	<p>P280 - Wear protective gloves. Wear eye or face protection.</p> <p>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.</p> <p>P242 - Use only non-sparking tools.</p> <p>P243 - Take precautionary measures against static discharge.</p> <p>P233 - Keep container tightly closed.</p> <p>P271 - Use only outdoors or in a well-ventilated area.</p> <p>P273 - Avoid release to the environment.</p> <p>P261 - Avoid breathing vapour.</p> <p>P264 - Wash hands thoroughly after handling.</p> <p>P391 - Collect spillage.</p>
<b>Response</b>	: GC/MS Checkout Sample (10 ng/uL)	<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.</p> <p>P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.</p> <p>P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</p> <p>P302 + P352 + P362 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing.</p> <p>P332 + P313 - If skin irritation occurs: Get medical attention.</p> <p>P391 - Collect spillage.</p>
	GC/MS Checkout Sample (100 pg/uL)	<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.</p> <p>P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.</p> <p>P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</p> <p>P302 + P352 + P362 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing.</p> <p>P332 + P313 - If skin irritation occurs: Get medical attention.</p> <p>P391 - Collect spillage.</p>
	GC/MS Checkout Sample (100 ng/uL)	<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.</p> <p>P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.</p> <p>P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</p> <p>P302 + P352 + P362 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing.</p> <p>P332 + P313 - If skin irritation occurs: Get medical attention.</p>

## Section 2. Hazard(s) identification

<b>Storage</b>	: GC/MS Checkout Sample (10 ng/uL)	P405 - Store locked up.  P403 - Store in a well-ventilated place. P235 - Keep cool.
	GC/MS Checkout Sample (100 pg/uL)	P405 - Store locked up.  P403 - Store in a well-ventilated place. P235 - Keep cool.
	GC/MS Checkout Sample (100 ng/uL)	P405 - Store locked up.  P403 - Store in a well-ventilated place. P235 - Keep cool.
<b>Disposal</b>	: GC/MS Checkout Sample (10 ng/uL)	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	GC/MS Checkout Sample (100 pg/uL)	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	GC/MS Checkout Sample (100 ng/uL)	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Supplemental label elements</b>	: GC/MS Checkout Sample (10 ng/uL)	Not applicable.
	GC/MS Checkout Sample (100 pg/uL)	Not applicable.
	GC/MS Checkout Sample (100 ng/uL)	Not applicable.
<b>Other hazards which do not result in classification</b>	: GC/MS Checkout Sample (10 ng/uL)	None known.
	GC/MS Checkout Sample (100 pg/uL)	None known.
	GC/MS Checkout Sample (100 ng/uL)	None known.

## Section 3. Composition and ingredient information

<b>Substance/mixture</b>	: GC/MS Checkout Sample (10 ng/uL)	Mixture
	GC/MS Checkout Sample (100 pg/uL)	Mixture
	GC/MS Checkout Sample (100 ng/uL)	Mixture

### CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
GC/MS Checkout Sample (10 ng/uL) 2,2,4-trimethylpentane	≥90	540-84-1
GC/MS Checkout Sample (100 pg/uL) 2,2,4-trimethylpentane	≥90	540-84-1
GC/MS Checkout Sample (100 ng/uL) 2,2,4-trimethylpentane	≥90	540-84-1

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>	: GC/MS Checkout Sample (10 ng/uL)	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.
	GC/MS Checkout Sample (100 pg/uL)	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.
	GC/MS Checkout Sample (100 ng/uL)	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.
<b>Inhalation</b>	: GC/MS Checkout Sample (10 ng/uL)	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.
	GC/MS Checkout Sample (100 pg/uL)	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.
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<b>Skin contact</b>	: GC/MS Checkout Sample (10 ng/uL)	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.
	GC/MS Checkout Sample (100 pg/uL)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue

## Section 4. First aid measures

		to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	GC/MS Checkout Sample (100 ng/uL)	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.
<b>Ingestion</b>	: GC/MS Checkout Sample (10 ng/uL)	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.
	GC/MS Checkout Sample (100 pg/uL)	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
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### Most important symptoms/effects, acute and delayed

#### Potential acute health effects



## Section 4. First aid measures

<b>Eye contact</b>	: GC/MS Checkout Sample (10 ng/uL)	No known significant effects or critical hazards.
	GC/MS Checkout Sample (100 pg/uL)	No known significant effects or critical hazards.
	GC/MS Checkout Sample (100 ng/uL)	No known significant effects or critical hazards.
<b>Inhalation</b>	: GC/MS Checkout Sample (10 ng/uL)	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
	GC/MS Checkout Sample (100 pg/uL)	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
	GC/MS Checkout Sample (100 ng/uL)	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
<b>Skin contact</b>	: GC/MS Checkout Sample (10 ng/uL)	Causes skin irritation.
	GC/MS Checkout Sample (100 pg/uL)	Causes skin irritation.
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<b>Ingestion</b>	: GC/MS Checkout Sample (10 ng/uL)	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
	GC/MS Checkout Sample (100 pg/uL)	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
	GC/MS Checkout Sample (100 ng/uL)	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
<b><u>Over-exposure signs/symptoms</u></b>		
<b>Eye contact</b>	: GC/MS Checkout Sample (10 ng/uL)	Adverse symptoms may include the following: pain or irritation watering redness
	GC/MS Checkout Sample (100 pg/uL)	Adverse symptoms may include the following: pain or irritation watering redness
	GC/MS Checkout Sample (100 ng/uL)	Adverse symptoms may include the following: pain or irritation watering redness
<b>Inhalation</b>	: GC/MS Checkout Sample (10 ng/uL)	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	GC/MS Checkout Sample (100 pg/uL)	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	GC/MS Checkout Sample (100 ng/uL)	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness

## Section 4. First aid measures

<b>Skin contact</b>	: GC/MS Checkout Sample (10 ng/uL)	Adverse symptoms may include the following: irritation redness
	GC/MS Checkout Sample (100 pg/uL)	Adverse symptoms may include the following: irritation redness
	GC/MS Checkout Sample (100 ng/uL)	Adverse symptoms may include the following: irritation redness
<b>Ingestion</b>	: GC/MS Checkout Sample (10 ng/uL)	Adverse symptoms may include the following: nausea or vomiting
	GC/MS Checkout Sample (100 pg/uL)	Adverse symptoms may include the following: nausea or vomiting
	GC/MS Checkout Sample (100 ng/uL)	Adverse symptoms may include the following: nausea or vomiting

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

<b>Notes to physician</b>	: GC/MS Checkout Sample (10 ng/uL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	GC/MS Checkout Sample (100 pg/uL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	GC/MS Checkout Sample (100 ng/uL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: GC/MS Checkout Sample (10 ng/uL)	No specific treatment.
	GC/MS Checkout Sample (100 pg/uL)	No specific treatment.
	GC/MS Checkout Sample (100 ng/uL)	No specific treatment.
<b>Protection of first-aiders</b>	: GC/MS Checkout Sample (10 ng/uL)	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.
	GC/MS Checkout Sample (100 pg/uL)	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.
	GC/MS Checkout Sample (100 ng/uL)	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.

See toxicological information (Section 11)



## Section 5. Firefighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	: GC/MS Checkout Sample (10 ng/uL)	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
	GC/MS Checkout Sample (100 pg/uL)	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
	GC/MS Checkout Sample (100 ng/uL)	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
<b>Unsuitable extinguishing media</b>	: GC/MS Checkout Sample (10 ng/uL)	Do not use water jet.
	GC/MS Checkout Sample (100 pg/uL)	Do not use water jet.
	GC/MS Checkout Sample (100 ng/uL)	Do not use water jet.
<b>Specific hazards arising from the chemical</b>	: GC/MS Checkout Sample (10 ng/uL)	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.
	GC/MS Checkout Sample (100 pg/uL)	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.
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<b>Hazardous thermal decomposition products</b>	: GC/MS Checkout Sample (10 ng/uL)	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	GC/MS Checkout Sample (100 pg/uL)	Decomposition products may include the following materials: carbon dioxide carbon monoxide
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## Section 5. Firefighting measures

<b>Special protective actions for fire-fighters</b>	: GC/MS Checkout Sample (10 ng/uL)	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.
	GC/MS Checkout Sample (100 pg/uL)	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.
	GC/MS Checkout Sample (100 ng/uL)	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>	: GC/MS Checkout Sample (10 ng/uL)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	GC/MS Checkout Sample (100 pg/uL)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	GC/MS Checkout Sample (100 ng/uL)	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>	: GC/MS Checkout Sample (10 ng/uL)	2YE
	GC/MS Checkout Sample (100 pg/uL)	2YE
	GC/MS Checkout Sample (100 ng/uL)	2YE

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	: GC/MS Checkout Sample (10 ng/uL)	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.
	GC/MS Checkout Sample (100 pg/uL)	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.
	GC/MS Checkout Sample (100 ng/uL)	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding

## Section 6. Accidental release measures

**For emergency responders :** GC/MS Checkout Sample (10 ng/uL)

GC/MS Checkout Sample (100 pg/uL)

GC/MS Checkout Sample (100 ng/uL)

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.

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".

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**Environmental precautions :** GC/MS Checkout Sample (10 ng/uL)

GC/MS Checkout Sample (100 pg/uL)

GC/MS Checkout Sample (100 ng/uL)

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.

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### Methods and material for containment and cleaning up

**Methods for cleaning up :** GC/MS Checkout Sample (10 ng/uL)

GC/MS Checkout Sample (100 pg/uL)

GC/MS Checkout Sample (100 ng/uL)

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.

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.

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

## Section 6. Accidental release measures

with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

### Precautions for safe handling

#### Protective measures

: GC/MS Checkout Sample  
(10 ng/uL)

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.

GC/MS Checkout Sample  
(100 pg/uL)

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.

GC/MS Checkout Sample  
(100 ng/uL)

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

## Section 7. Handling and storage

### Advice on general occupational hygiene

: GC/MS Checkout Sample (10 ng/uL)

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.

GC/MS Checkout Sample (100 pg/uL)

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.

GC/MS Checkout Sample (100 ng/uL)

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.

### Conditions for safe storage, including any incompatibilities

: GC/MS Checkout Sample (10 ng/uL)

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.

GC/MS Checkout Sample (100 pg/uL)

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.

GC/MS Checkout Sample (100 ng/uL)

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.



## Section 8. Exposure controls and personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
GC/MS Checkout Sample (10 ng/uL) 2,2,4-trimethylpentane	ACGIH TLV (United States, 3/2016). TWA: 300 ppm 8 hours.
GC/MS Checkout Sample (100 pg/uL) 2,2,4-trimethylpentane	ACGIH TLV (United States, 3/2016). TWA: 300 ppm 8 hours.
GC/MS Checkout Sample (100 ng/uL) 2,2,4-trimethylpentane	ACGIH TLV (United States, 3/2016). TWA: 300 ppm 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.

**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

<b>Physical state</b>	: GC/MS Checkout Sample (10 ng/uL)	Liquid.
	GC/MS Checkout Sample (100 pg/uL)	Liquid.
	GC/MS Checkout Sample (100 ng/uL)	Liquid.
<b>Colour</b>	: GC/MS Checkout Sample (10 ng/uL)	Clear. / Colourless.
	GC/MS Checkout Sample (100 pg/uL)	Clear. / Colourless.
	GC/MS Checkout Sample (100 ng/uL)	Clear. / Colourless.
<b>Odour</b>	: GC/MS Checkout Sample (10 ng/uL)	Gasoline-like
	GC/MS Checkout Sample (100 pg/uL)	Gasoline-like
	GC/MS Checkout Sample (100 ng/uL)	Gasoline-like
<b>Odour threshold</b>	: GC/MS Checkout Sample (10 ng/uL)	Not available.
	GC/MS Checkout Sample (100 pg/uL)	Not available.
	GC/MS Checkout Sample (100 ng/uL)	Not available.
<b>pH</b>	: GC/MS Checkout Sample (10 ng/uL)	Not available.
	GC/MS Checkout Sample (100 pg/uL)	Not available.
	GC/MS Checkout Sample (100 ng/uL)	Not available.
<b>Melting point</b>	: GC/MS Checkout Sample (10 ng/uL)	-107°C (-160.6°F)
	GC/MS Checkout Sample (100 pg/uL)	-107°C (-160.6°F)
	GC/MS Checkout Sample (100 ng/uL)	-107°C (-160.6°F)
<b>Boiling point</b>	: GC/MS Checkout Sample (10 ng/uL)	99.2°C (210.6°F)
	GC/MS Checkout Sample (100 pg/uL)	99.2°C (210.6°F)
	GC/MS Checkout Sample (100 ng/uL)	99.2°C (210.6°F)
<b>Flash point</b>	: GC/MS Checkout Sample (10 ng/uL)	Closed cup: -18 to 23°C (-0.4 to 73.4°F) Open cup: 4.5°C (40.1°F)
	GC/MS Checkout Sample (100 pg/uL)	Closed cup: -18 to 23°C (-0.4 to 73.4°F) Open cup: 4.5°C (40.1°F)
	GC/MS Checkout Sample (100 ng/uL)	Closed cup: -18 to 23°C (-0.4 to 73.4°F) Open cup: 4.5°C (40.1°F)
<b>Evaporation rate</b>	: GC/MS Checkout Sample (10 ng/uL)	Not available.
	GC/MS Checkout Sample (100 pg/uL)	Not available.
	GC/MS Checkout Sample (100 ng/uL)	Not available.

## Section 9. Physical and chemical properties

<b>Flammability (solid, gas)</b>	: GC/MS Checkout Sample (10 ng/uL)	Not applicable.
	GC/MS Checkout Sample (100 pg/uL)	Not applicable.
	GC/MS Checkout Sample (100 ng/uL)	Not applicable.
<b>Lower and upper explosive (flammable) limits</b>	: GC/MS Checkout Sample (10 ng/uL)	Lower: 1.1%
		Upper: 6%
	GC/MS Checkout Sample (100 pg/uL)	Lower: 1.1%
	GC/MS Checkout Sample (100 ng/uL)	Upper: 6%
		Lower: 1.1%
		Upper: 6%
<b>Vapour pressure</b>	: GC/MS Checkout Sample (10 ng/uL)	5.5 kPa (41 mm Hg) [room temperature]
	GC/MS Checkout Sample (100 pg/uL)	5.5 kPa (41 mm Hg) [room temperature]
	GC/MS Checkout Sample (100 ng/uL)	5.5 kPa (41 mm Hg) [room temperature]
<b>Vapour density</b>	: GC/MS Checkout Sample (10 ng/uL)	3.93 [Air = 1]
	GC/MS Checkout Sample (100 pg/uL)	3.93 [Air = 1]
	GC/MS Checkout Sample (100 ng/uL)	3.93 [Air = 1]
<b>Relative density</b>	: GC/MS Checkout Sample (10 ng/uL)	Not available.
	GC/MS Checkout Sample (100 pg/uL)	Not available.
	GC/MS Checkout Sample (100 ng/uL)	Not available.
<b>Solubility</b>	: GC/MS Checkout Sample (10 ng/uL)	Insoluble in the following materials: cold water and hot water.
	GC/MS Checkout Sample (100 pg/uL)	Insoluble in the following materials: cold water and hot water.
	GC/MS Checkout Sample (100 ng/uL)	Insoluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: GC/MS Checkout Sample (10 ng/uL)	Not available.
	GC/MS Checkout Sample (100 pg/uL)	Not available.
	GC/MS Checkout Sample (100 ng/uL)	Not available.
<b>Auto-ignition temperature</b>	: GC/MS Checkout Sample (10 ng/uL)	418°C (784.4°F)
	GC/MS Checkout Sample (100 pg/uL)	418°C (784.4°F)
	GC/MS Checkout Sample (100 ng/uL)	418°C (784.4°F)
<b>Decomposition temperature</b>	: GC/MS Checkout Sample (10 ng/uL)	Not available.
	GC/MS Checkout Sample (100 pg/uL)	Not available.
	GC/MS Checkout Sample (100 ng/uL)	Not available.

## Section 9. Physical and chemical properties

<b>Viscosity</b>	: GC/MS Checkout Sample (10 ng/uL)	Not available.
	GC/MS Checkout Sample (100 pg/uL)	Not available.
	GC/MS Checkout Sample (100 ng/uL)	Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: GC/MS Checkout Sample (10 ng/uL)	No specific test data related to reactivity available for this product or its ingredients.
	GC/MS Checkout Sample (100 pg/uL)	No specific test data related to reactivity available for this product or its ingredients.
	GC/MS Checkout Sample (100 ng/uL)	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: GC/MS Checkout Sample (10 ng/uL)	The product is stable.
	GC/MS Checkout Sample (100 pg/uL)	The product is stable.
	GC/MS Checkout Sample (100 ng/uL)	The product is stable.
<b>Possibility of hazardous reactions</b>	: GC/MS Checkout Sample (10 ng/uL)	Under normal conditions of storage and use, hazardous reactions will not occur.
	GC/MS Checkout Sample (100 pg/uL)	Under normal conditions of storage and use, hazardous reactions will not occur.
	GC/MS Checkout Sample (100 ng/uL)	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: GC/MS Checkout Sample (10 ng/uL)	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.
	GC/MS Checkout Sample (100 pg/uL)	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.
	GC/MS Checkout Sample (100 ng/uL)	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>	: GC/MS Checkout Sample (10 ng/uL)	Reactive or incompatible with the following materials:  oxidizing materials
	GC/MS Checkout Sample (100 pg/uL)	Reactive or incompatible with the following materials:  oxidizing materials
	GC/MS Checkout Sample (100 ng/uL)	Reactive or incompatible with the following materials:  oxidizing materials

## Section 10. Stability and reactivity

<b>Hazardous decomposition products</b>	: GC/MS Checkout Sample (10 ng/uL)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	GC/MS Checkout Sample (100 pg/uL)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	GC/MS Checkout Sample (100 ng/uL)	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
GC/MS Checkout Sample (10 ng/uL) 2,2,4-trimethylpentane	LC50 Inhalation Vapour	Rat - Male, Female	>33.52 mg/l	4 hours
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
GC/MS Checkout Sample (100 pg/uL) 2,2,4-trimethylpentane	LC50 Inhalation Vapour	Rat - Male, Female	>33.52 mg/l	4 hours
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
GC/MS Checkout Sample (100 ng/uL) 2,2,4-trimethylpentane	LC50 Inhalation Vapour	Rat - Male, Female	>33.52 mg/l	4 hours
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-

#### Irritation/Corrosion

Not available.

#### Sensitisation

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)

## Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
GC/MS Checkout Sample (10 ng/uL) 2,2,4-trimethylpentane	Category 3	Not applicable.	Narcotic effects
GC/MS Checkout Sample (100 pg/uL) 2,2,4-trimethylpentane	Category 3	Not applicable.	Narcotic effects
GC/MS Checkout Sample (100 ng/uL) 2,2,4-trimethylpentane	Category 3	Not applicable.	Narcotic effects

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Name	Result
GC/MS Checkout Sample (10 ng/uL) GC/MS Checkout Sample (10 ng/uL) 2,2,4-trimethylpentane	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
GC/MS Checkout Sample (100 pg/uL) GC/MS Checkout Sample (100 pg/uL) 2,2,4-trimethylpentane	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
GC/MS Checkout Sample (100 ng/uL) GC/MS Checkout Sample (100 ng/uL) 2,2,4-trimethylpentane	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

<b>Information on likely routes of exposure</b>	: GC/MS Checkout Sample (10 ng/uL) GC/MS Checkout Sample (100 pg/uL) GC/MS Checkout Sample (100 ng/uL)	Routes of entry anticipated: Oral, Dermal, Inhalation. Routes of entry anticipated: Oral, Dermal, Inhalation. Routes of entry anticipated: Oral, Dermal, Inhalation.
<b>Potential acute health effects</b>		
<b>Eye contact</b>	: GC/MS Checkout Sample (10 ng/uL) GC/MS Checkout Sample (100 pg/uL) GC/MS Checkout Sample (100 ng/uL)	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Inhalation</b>	: GC/MS Checkout Sample (10 ng/uL) GC/MS Checkout Sample (100 pg/uL) GC/MS Checkout Sample (100 ng/uL)	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
<b>Skin contact</b>	: GC/MS Checkout Sample (10 ng/uL) GC/MS Checkout Sample (100 pg/uL) GC/MS Checkout Sample (100 ng/uL)	Causes skin irritation. Causes skin irritation. Causes skin irritation.
<b>Ingestion</b>	: GC/MS Checkout Sample (10 ng/uL) GC/MS Checkout Sample (100 pg/uL) GC/MS Checkout Sample (100 ng/uL)	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

## Section 11. Toxicological information

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

<b>Eye contact</b>	: GC/MS Checkout Sample (10 ng/uL)	Adverse symptoms may include the following:  pain or irritation watering redness
	GC/MS Checkout Sample (100 pg/uL)	Adverse symptoms may include the following:  pain or irritation watering redness
	GC/MS Checkout Sample (100 ng/uL)	Adverse symptoms may include the following:  pain or irritation watering redness
<b>Inhalation</b>	: GC/MS Checkout Sample (10 ng/uL)	Adverse symptoms may include the following:  nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	GC/MS Checkout Sample (100 pg/uL)	Adverse symptoms may include the following:  nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	GC/MS Checkout Sample (100 ng/uL)	Adverse symptoms may include the following:  nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
<b>Skin contact</b>	: GC/MS Checkout Sample (10 ng/uL)	Adverse symptoms may include the following:  irritation redness
	GC/MS Checkout Sample (100 pg/uL)	Adverse symptoms may include the following:  irritation redness
	GC/MS Checkout Sample (100 ng/uL)	Adverse symptoms may include the following:  irritation redness
<b>Ingestion</b>	: GC/MS Checkout Sample (10 ng/uL)	Adverse symptoms may include the following:  nausea or vomiting
	GC/MS Checkout Sample (100 pg/uL)	Adverse symptoms may include the following:  nausea or vomiting
	GC/MS Checkout Sample (100 ng/uL)	Adverse symptoms may include the following:  nausea or vomiting

### Delayed and immediate effects as well as chronic effects from short and long-term exposure



## Section 11. Toxicological information

### 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>	: GC/MS Checkout Sample (10 ng/uL)	No known significant effects or critical hazards.
	GC/MS Checkout Sample (100 pg/uL)	No known significant effects or critical hazards.
	GC/MS Checkout Sample (100 ng/uL)	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: GC/MS Checkout Sample (10 ng/uL)	No known significant effects or critical hazards.
	GC/MS Checkout Sample (100 pg/uL)	No known significant effects or critical hazards.
	GC/MS Checkout Sample (100 ng/uL)	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: GC/MS Checkout Sample (10 ng/uL)	No known significant effects or critical hazards.
	GC/MS Checkout Sample (100 pg/uL)	No known significant effects or critical hazards.
	GC/MS Checkout Sample (100 ng/uL)	No known significant effects or critical hazards.
<b>Teratogenicity</b>	: GC/MS Checkout Sample (10 ng/uL)	No known significant effects or critical hazards.
	GC/MS Checkout Sample (100 pg/uL)	No known significant effects or critical hazards.
	GC/MS Checkout Sample (100 ng/uL)	No known significant effects or critical hazards.
<b>Developmental effects</b>	: GC/MS Checkout Sample (10 ng/uL)	No known significant effects or critical hazards.
	GC/MS Checkout Sample (100 pg/uL)	No known significant effects or critical hazards.
	GC/MS Checkout Sample (100 ng/uL)	No known significant effects or critical hazards.
<b>Fertility effects</b>	: GC/MS Checkout Sample (10 ng/uL)	No known significant effects or critical hazards.
	GC/MS Checkout Sample (100 pg/uL)	No known significant effects or critical hazards.
	GC/MS Checkout Sample (100 ng/uL)	No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### Toxicity

Not available.

### Persistence and degradability

Not available.

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
GC/MS Checkout Sample (10 ng/uL) 2,2,4-trimethylpentane	4.08	231	low
GC/MS Checkout Sample (100 pg/uL) 2,2,4-trimethylpentane	4.08	231	low
GC/MS Checkout Sample (100 ng/uL) 2,2,4-trimethylpentane	4.08	231	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.

## Section 14. Transport information

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

Not regulated.

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

No listed substance

Australia inventory (AICS) :  Not determined.

### 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 Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### International lists

#### National inventory

Canada	: Not determined.
China	: All components are listed or exempted.
Europe	: All components are listed or exempted.
Japan	: <input checked="" type="checkbox"/> Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Turkey	: <input checked="" type="checkbox"/> Not determined.
United States	: Not determined.

## Section 16. Any other relevant information

### History

Date of issue/Date of revision : 20/04/2017

Date of previous issue : 16/09/2015.

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

## Section 16. Any other relevant information

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>GC/MS Checkout Sample (10 ng/uL)</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>GC/MS Checkout Sample (100 pg/uL)</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>GC/MS Checkout Sample (100 ng/uL)</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

**References** : Not available.

Indicates information that has changed from previously issued version.

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