

# SAFETY DATA SHEET



GC/MS Checkout Sample, Part Number 05970-60045

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

### 1.1 Product identifier

**Product name** : 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

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

**Material uses** :  Reagents and Standards for Analytical Chemistry Laboratory Use  
 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

### 1.3 Details of the supplier of the safety data sheet

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

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

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

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** :  GC/MS Checkout Sample, 10 ng/ul Mixture  
GC/MS Checkout Sample (100 pg/uL) Mixture  
GC/MS Checkout Sample (100 ng/uL) Mixture

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

#### 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 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1  
H410 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1

#### GC/MS Checkout Sample (100

**Date of issue/Date of revision** : 21/08/2018

1/27

GC/MS Checkout Sample, Part Number 05970-60045

## SECTION 2: Hazards identification

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	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
H410	LONG-TERM (CHRONIC) 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	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
H410	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1

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

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

### 2.2 Label elements

#### Hazard pictograms

: GC/MS Checkout Sample, 10 ng/ul				
GC/MS Checkout Sample (100 pg/uL)				
GC/MS Checkout Sample (100 ng/uL)				

#### 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.

GC/MS Checkout Sample, Part Number 05970-60045

## SECTION 2: Hazards identification

H336 - May cause drowsiness or dizziness.  
H410 - Very toxic to aquatic life with long lasting effects.

### Precautionary statements

<b>Prevention</b>	: GC/MS Checkout Sample, 10 ng/ul	P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment.
	GC/MS Checkout Sample (100 pg/uL)	P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment.
	GC/MS Checkout Sample (100 ng/uL)	P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment.
<b>Response</b>	: GC/MS Checkout Sample, 10 ng/ul	P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
	GC/MS Checkout Sample (100 pg/uL)	P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
	GC/MS Checkout Sample (100 ng/uL)	P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
<b>Storage</b>	: GC/MS Checkout Sample, 10 ng/ul	P405 - Store locked up.
	GC/MS Checkout Sample (100 pg/uL)	P405 - Store locked up.
	GC/MS Checkout Sample (100 ng/uL)	P405 - Store locked up.
<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>Hazardous ingredients</b>	: GC/MS Checkout Sample, 10 ng/ul	- 2,2,4-trimethylpentane
	GC/MS Checkout Sample (100 pg/uL)	- 2,2,4-trimethylpentane
	GC/MS Checkout Sample (100 ng/uL)	- 2,2,4-trimethylpentane
<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.

GC/MS Checkout Sample, Part Number 05970-60045

## SECTION 2: Hazards identification

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

### Special packaging requirements

**Tactile warning of danger** :  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.

### 2.3 Other hazards

**Other hazards which do not result in classification** :  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/information on ingredients

**3.1 Substances** :  GC/MS Checkout Sample, 10 ng/ul Mixture  
 GC/MS Checkout Sample (100 pg/uL) Mixture  
 GC/MS Checkout Sample (100 ng/uL) Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
<input checked="" type="checkbox"/> GC/MS Checkout Sample, 10 ng/ul 2,2,4-trimethylpentane	EC: 208-759-1 CAS: 540-84-1 Index: 601-009-00-8	≥90	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
GC/MS Checkout Sample (100 pg/uL) 2,2,4-trimethylpentane	EC: 208-759-1 CAS: 540-84-1 Index: 601-009-00-8	≥90	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
GC/MS Checkout Sample (100 ng/uL) 2,2,4-trimethylpentane	EC: 208-759-1 CAS: 540-84-1 Index: 601-009-00-8	≥90	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]

GC/MS Checkout Sample, Part Number 05970-60045

### SECTION 3: Composition/information on ingredients

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

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

Type

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

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

<b>Eye contact</b>	:	<input checked="" type="checkbox"/> 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>	:	<input checked="" type="checkbox"/> 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.
		GC/MS Checkout Sample (100 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,

GC/MS Checkout Sample, Part Number 05970-60045

## SECTION 4: First aid measures

### Skin contact

: GC/MS Checkout Sample, 10 ng/ul

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)

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 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.

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.

### Ingestion

: 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.

GC/MS Checkout Sample (100 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, Part Number 05970-60045

## SECTION 4: First aid measures

<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.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

<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.
	GC/MS Checkout Sample (100 ng/uL)	Causes skin irritation.
<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.

#### Over-exposure signs/symptoms

<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

GC/MS Checkout Sample, Part Number 05970-60045

**SECTION 4: First aid measures**

<b>Inhalation</b>	: GC/MS Checkout Sample, 10 ng/ul	watering redness 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

**4.3 Indication of any immediate medical attention and special treatment needed**

<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.



GC/MS Checkout Sample, Part Number 05970-60045

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: GC/MS Checkout Sample, 10 ng/ul GC/MS Checkout Sample (100 pg/uL) GC/MS Checkout Sample (100 ng/uL)	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam. Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam. Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
<b>Unsuitable extinguishing media</b>	: GC/MS Checkout Sample, 10 ng/ul GC/MS Checkout Sample (100 pg/uL) GC/MS Checkout Sample (100 ng/uL)	Do not use water jet. Do not use water jet. Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

<b>Hazards from the substance or mixture</b>	: GC/MS Checkout Sample, 10 ng/ul  GC/MS Checkout Sample (100 pg/uL)  GC/MS Checkout Sample (100 ng/uL)	Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The 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. 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.  Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The 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. 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.  Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The 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. 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.
<b>Hazardous combustion products</b>	: GC/MS Checkout Sample, 10 ng/ul  GC/MS Checkout Sample (100 pg/uL)  GC/MS Checkout Sample (100 ng/uL)	Decomposition products may include the following materials:  carbon dioxide carbon monoxide Decomposition products may include the following materials:  carbon dioxide carbon monoxide Decomposition products may include the following materials:  carbon dioxide carbon monoxide

GC/MS Checkout Sample, Part Number 05970-60045

## SECTION 5: Firefighting measures

### 5.3 Advice for firefighters

#### Special precautions for fire-fighters

: 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. 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. 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)

GC/MS Checkout Sample (100 ng/uL)

#### Special protective equipment for fire-fighters

: 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

GC/MS Checkout Sample (100 pg/uL)

GC/MS Checkout Sample (100 ng/uL)

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

: 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 areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all

GC/MS Checkout Sample, Part Number 05970-60045

## SECTION 6: Accidental release measures

		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.
<b>For emergency responders</b>	: GC/MS Checkout Sample, 10 ng/ul	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".
	GC/MS Checkout Sample (100 pg/uL)	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".
	GC/MS Checkout Sample (100 ng/uL)	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".
<b>6.2 Environmental precautions</b>	: GC/MS Checkout Sample, 10 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.
	GC/MS Checkout Sample (100 pg/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.
	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.
<b>6.3 Methods and material for containment and cleaning up</b>		
<b>Methods for cleaning up</b>	: GC/MS Checkout Sample, 10 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.
	GC/MS Checkout Sample (100 pg/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.
	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.
<b>6.4 Reference to other sections</b>	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.	

GC/MS Checkout Sample, Part Number 05970-60045

## SECTION 7: Handling and storage

### 7.1 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.

**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,

GC/MS Checkout Sample, Part Number 05970-60045

## SECTION 7: Handling and storage

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

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

: 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. See Section 10 for incompatible materials before handling or use.

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. See Section 10 for incompatible materials before handling or use.

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. See Section 10 for incompatible materials before handling or use.

### Seveso Directive - Reporting thresholds (in tonnes)

#### Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
GC/MS Checkout Sample, 10 ng/ul P5c E1	5000 100	50000 200
GC/MS Checkout Sample (100 pg/uL) P5c E1	5000 100	50000 200
GC/MS Checkout Sample (100 ng/uL) P5c E1	5000 100	50000 200

### 7.3 Specific end use(s)

Date of issue/Date of revision : 21/08/2018

13/27

GC/MS Checkout Sample, Part Number 05970-60045

## SECTION 7: Handling and storage

<b>Recommendations</b>	: GC/MS Checkout Sample, 10 ng/ul	Industrial applications, Professional applications.
	GC/MS Checkout Sample (100 pg/uL)	Industrial applications, Professional applications.
	GC/MS Checkout Sample (100 ng/uL)	Industrial applications, Professional applications.
<b>Industrial sector specific solutions</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.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

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

#### DNELs/DMELs

No DNELs/DMELs available.

#### PNECs

No PNECs available

### 8.2 Exposure controls

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

#### Individual protection measures

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

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

#### Skin protection

GC/MS Checkout Sample, Part Number 05970-60045

## SECTION 8: Exposure controls/personal protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : GC/MS Checkout Sample, 10 ng/ul Liquid.  
GC/MS Checkout Sample (100 pg/uL) Liquid.  
GC/MS Checkout Sample (100 ng/uL) Liquid.
- Colour** : 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.
- Odour** : 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
- Odour threshold** : 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.
- pH** : 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.

GC/MS Checkout Sample, Part Number 05970-60045

## SECTION 9: Physical and chemical properties

<b>Melting point/freezing point</b>	: GC/MS Checkout Sample, 10 ng/ul	-107°C
	GC/MS Checkout Sample (100 pg/uL)	-107°C
	GC/MS Checkout Sample (100 ng/uL)	-107°C
<b>Initial boiling point and boiling range</b>	: GC/MS Checkout Sample, 10 ng/ul	99.2°C
	GC/MS Checkout Sample (100 pg/uL)	99.2°C
	GC/MS Checkout Sample (100 ng/uL)	99.2°C
<b>Flash point</b>	: GC/MS Checkout Sample, 10 ng/ul	Closed cup: -18 to 23°C
		Open cup: 4.5°C
	GC/MS Checkout Sample (100 pg/uL)	Closed cup: -18 to 23°C
		Open cup: 4.5°C
	GC/MS Checkout Sample (100 ng/uL)	Closed cup: -18 to 23°C
		Open cup: 4.5°C
<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.
		Not available.
<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.
		Not applicable.
<b>Upper/lower flammability or explosive limits</b>	: GC/MS Checkout Sample, 10 ng/ul	Lower: 1.1%
		Upper: 6%
	GC/MS Checkout Sample (100 pg/uL)	Lower: 1.1%
		Upper: 6%
	GC/MS Checkout Sample (100 ng/uL)	Lower: 1.1%
		Upper: 6%
<b>Vapour pressure</b>	: GC/MS Checkout Sample, 10 ng/ul	5.5 kPa [room temperature]
	GC/MS Checkout Sample (100 pg/uL)	5.5 kPa [room temperature]
	GC/MS Checkout Sample (100 ng/uL)	5.5 kPa [room temperature]
		5.5 kPa [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]
		3.93 [Air = 1]



GC/MS Checkout Sample, Part Number 05970-60045

## SECTION 9: Physical and chemical properties

<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(ies)</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
	GC/MS Checkout Sample (100 pg/uL)	418°C
	GC/MS Checkout Sample (100 ng/uL)	418°C
<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.
<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.
<b>Explosive properties</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>Oxidising properties</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.

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: GC/MS Checkout Sample, 10 ng/ul GC/MS Checkout Sample (100 pg/uL) GC/MS Checkout Sample (100 ng/uL)	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: GC/MS Checkout Sample, 10 ng/ul GC/MS Checkout Sample (100 pg/uL) GC/MS Checkout Sample (100 ng/uL)	The product is stable. The product is stable. The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: GC/MS Checkout Sample, 10 ng/ul GC/MS Checkout Sample (100 pg/uL) GC/MS Checkout Sample (100 ng/uL)	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: GC/MS Checkout Sample, 10 ng/ul  GC/MS Checkout Sample (100 pg/uL)  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. 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. 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>10.5 Incompatible materials</b>	: GC/MS Checkout Sample, 10 ng/ul  GC/MS Checkout Sample (100 pg/uL)  GC/MS Checkout Sample (100 ng/uL)	Reactive or incompatible with the following materials:  oxidizing materials Reactive or incompatible with the following materials:  oxidizing materials Reactive or incompatible with the following materials:  oxidizing materials
<b>10.6 Hazardous decomposition products</b>	: GC/MS Checkout Sample, 10 ng/ul GC/MS Checkout Sample (100 pg/uL) GC/MS Checkout Sample (100 ng/uL)	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

GC/MS Checkout Sample, Part Number 05970-60045

## SECTION 11: Toxicological information

### 11.1 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	-

#### Acute toxicity estimates

Not available.

#### Irritation/Corrosion

**Conclusion/Summary** : Not available.

#### Sensitiser

**Conclusion/Summary** : Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

**Conclusion/Summary** : Not available.

#### Teratogenicity

**Conclusion/Summary** : Not available.

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

Product/ingredient 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

GC/MS Checkout Sample, Part Number 05970-60045

## SECTION 11: Toxicological information

Product/ingredient name	Result
<b>GC/MS Checkout Sample, 10 ng/ul</b> GC/MS Checkout Sample, 10 ng/ul 2,2,4-trimethylpentane	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
<b>GC/MS Checkout Sample (100 pg/uL)</b> GC/MS Checkout Sample (100 pg/uL) 2,2,4-trimethylpentane	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
<b>GC/MS Checkout Sample (100 ng/uL)</b> GC/MS Checkout Sample (100 ng/uL) 2,2,4-trimethylpentane	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

**Information on likely routes of exposure** :  GC/MS Checkout Sample, 10 ng/ul Routes of entry anticipated: Oral, Dermal, Inhalation.  
 GC/MS Checkout Sample (100 pg/uL) Routes of entry anticipated: Oral, Dermal, Inhalation.  
 GC/MS Checkout Sample (100 ng/uL) Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

**Inhalation** :  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.

**Ingestion** :  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.

**Skin contact** :  GC/MS Checkout Sample, 10 ng/ul Causes skin irritation.  
 GC/MS Checkout Sample (100 pg/uL) Causes skin irritation.  
 GC/MS Checkout Sample (100 ng/uL) Causes skin irritation.

**Eye contact** :  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.

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

**Inhalation** :  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 Adverse symptoms may include the following:

GC/MS Checkout Sample, Part Number 05970-60045

## SECTION 11: Toxicological information

Sample (100 ng/uL)

nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness

**Ingestion** :  GC/MS Checkout Sample, 10 ng/ul Adverse symptoms may include the following:

nausea or vomiting  
Adverse symptoms may include the following:

GC/MS Checkout Sample (100 pg/uL)

nausea or vomiting  
Adverse symptoms may include the following:

GC/MS Checkout Sample (100 ng/uL)

**Skin contact** :  GC/MS Checkout Sample, 10 ng/ul Adverse symptoms may include the following:

irritation  
redness  
Adverse symptoms may include the following:

GC/MS Checkout Sample (100 pg/uL)

irritation  
redness  
Adverse symptoms may include the following:

GC/MS Checkout Sample (100 ng/uL)

**Eye contact** :  GC/MS Checkout Sample, 10 ng/ul Adverse symptoms may include the following:

pain or irritation  
watering  
redness  
Adverse symptoms may include the following:

GC/MS Checkout Sample (100 pg/uL)

pain or irritation  
watering  
redness  
Adverse symptoms may include the following:

GC/MS Checkout Sample (100 ng/uL)

pain or irritation  
watering  
redness

### 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

GC/MS Checkout Sample, Part Number 05970-60045

## SECTION 11: Toxicological information

<b>General</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>Carcinogenicity</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>Mutagenicity</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>Teratogenicity</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>Developmental effects</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>Fertility effects</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>Other information</b>	: GC/MS Checkout Sample, 10 ng/ul GC/MS Checkout Sample (100 pg/uL) GC/MS Checkout Sample (100 ng/uL)	Adverse symptoms may include the following: Repeated exposure may cause skin dryness or cracking. Adverse symptoms may include the following: Repeated exposure may cause skin dryness or cracking. Adverse symptoms may include the following: Repeated exposure may cause skin dryness or cracking.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
GC/MS Checkout Sample, 10 ng/ul 2,2,4-trimethylpentane	Acute LC50 0.11 mg/l Fresh water	Fish	96 hours
GC/MS Checkout Sample (100 pg/uL) 2,2,4-trimethylpentane	Acute LC50 0.11 mg/l Fresh water	Fish	96 hours
GC/MS Checkout Sample (100 ng/uL) 2,2,4-trimethylpentane	Acute LC50 0.11 mg/l Fresh water	Fish	96 hours

GC/MS Checkout Sample, Part Number 05970-60045

## SECTION 12: Ecological information

### 12.2 Persistence and degradability

Not available.

### 12.3 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

### 12.4 Mobility in soil

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

Mobility : Not available.

### 12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

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

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

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

#### Packaging

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

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

GC/MS Checkout Sample, Part Number 05970-60045

## SECTION 14: Transport information

ADR/RID / IMDG / IATA : Not regulated.

### Additional information

Remarks: De minimis quantities

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

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

## SECTION 15: Regulatory information

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

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

##### Annex XIV - List of substances subject to authorisation

###### Annex XIV

None of the components are listed.

###### Substances of very high concern

None of the components are listed.

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

#### Other EU regulations

##### Ozone depleting substances (1005/2009/EU)

Not listed.

##### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

##### Seveso Directive

This product is controlled under the Seveso Directive.

##### Danger criteria

Category
<input checked="" type="checkbox"/> GC/MS Checkout Sample, 10 ng/ul P5c E1
GC/MS Checkout Sample (100 pg/uL) P5c E1
GC/MS Checkout Sample (100 ng/uL) P5c E1

#### International regulations

##### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Date of issue/Date of revision : 21/08/2018



GC/MS Checkout Sample, Part Number 05970-60045

## SECTION 15: Regulatory information

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

<b>Australia</b>	: Not determined.
<b>Canada</b>	: Not determined.
<b>China</b>	: All components are listed or exempted.
<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>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: <input checked="" type="checkbox"/> Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: Not determined.
<b>Viet Nam</b>	: <input checked="" type="checkbox"/> Not determined.

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

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

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

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

Classification	Justification
<input checked="" type="checkbox"/> <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	On basis of test data Calculation method Calculation method

**Date of issue/Date of revision** : 21/08/2018

GC/MS Checkout Sample, Part Number 05970-60045

## SECTION 16: Other information

Asp. Tox. 1, H304  
Aquatic Acute 1, H400  
Aquatic Chronic 1, H410

Expert judgment  
Calculation method  
Calculation method

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

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

### [Full text of abbreviated H statements](#)

#### GC/MS Checkout Sample, 10 ng/uL

H225  
H304  
H315  
H336  
H400  
H410

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

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

H225  
H304  
H315  
H336  
H400  
H410

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

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

H225  
H304  
H315  
H336  
H400  
H410

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

### [Full text of classifications \[CLP/GHS\]](#)

#### GC/MS Checkout Sample, 10 ng/uL

Aquatic Acute 1, H400  
Aquatic Chronic 1, H410  
Asp. Tox. 1, H304  
Flam. Liq. 2, H225  
Skin Irrit. 2, H315  
STOT SE 3, H336

SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1  
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1  
ASPIRATION HAZARD - Category 1  
FLAMMABLE LIQUIDS - Category 2  
SKIN CORROSION/IRRITATION - Category 2  
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3

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

Aquatic Acute 1, H400  
Aquatic Chronic 1, H410  
Asp. Tox. 1, H304  
Flam. Liq. 2, H225  
Skin Irrit. 2, H315  
STOT SE 3, H336

SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1  
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1  
ASPIRATION HAZARD - Category 1  
FLAMMABLE LIQUIDS - Category 2  
SKIN CORROSION/IRRITATION - Category 2  
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3

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

Aquatic Acute 1, H400  
Aquatic Chronic 1, H410  
Asp. Tox. 1, H304  
Flam. Liq. 2, H225

SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1  
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1  
ASPIRATION HAZARD - Category 1  
FLAMMABLE LIQUIDS - Category 2

GC/MS Checkout Sample, Part Number 05970-60045

## SECTION 16: Other information

Skin Irrit. 2, H315  
STOT SE 3, H336

SKIN CORROSION/IRRITATION - Category 2  
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE  
(Narcotic effects) - Category 3

**Date of issue/ Date of revision** : 21/08/2018

**Date of previous issue** : 20/04/2017

**Version** : 2

### Notice to reader

**Disclaimer:** The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.