SAFETY DATA SHEET



Test Mixture 14 GASOH, Part Number CP734420

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

1.1 Product identifier

Product name : Test Mixture 14 GASOH, Part Number CP734420

Part no. : CP734420

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

Material uses : Reagents and Standards for Analytical Chemistry Laboratory Use

5 ml vials

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 : pdl-msds_author@agilent.com

responsible for this SDS

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: Mixture

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

H225 FLAMMABLE LIQUIDS - Category 2

H318 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

H340 GERM CELL MUTAGENICITY - Category 1B

H350 CARCINOGENICITY - Category 1A

H336 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) -

Category 3

H304 ASPIRATION HAZARD - Category 1

H411 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

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











Signal word : Danger

Date of issue/Date of : 26/03/2018 **1/19**

SECTION 2: Hazards identification

Hazard statements

: H225 - Highly flammable liquid and vapour.

H318 - Causes serious eye damage. H340 - May cause genetic defects.

H350 - May cause cancer.

H304 - May be fatal if swallowed and enters airways.

H336 - May cause drowsiness or dizziness.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

: P201 - Obtain special instructions before use.

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.

Response : 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.

P305 + P310 - IF IN EYES: Immediately call a POISON CENTER or physician.

: P405 - Store locked up. **Storage**

: P501 - Dispose of contents and container in accordance with all local, regional, national **Disposal**

and international regulations.

Hazardous ingredients pentane

- 2-methylpropan-1-ol

- propan-1-ol - butan-1-ol - benzene

Supplemental label

elements

: Not applicable.

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

: Restricted to professional users.

Special packaging requirements

Tactile warning of

danger

: Not applicable.

2.3 Other hazards

Other hazards which do

: None known.

not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures Mixture

Date of issue/Date of : 26/03/2018 2/19

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
pentane	EC: 203-692-4	≥75 - ≤90	Flam. Liq. 2, H225	[1] [2]
•	CAS: 109-66-0		STOT SE 3, H336	
	Index: 601-006-00-1		Asp. Tox. 1, H304	
			Aquatic Chronic 2, H411	
			EUH066	
Methanol	EC: 200-659-6	<3	Flam. Liq. 2, H225	[1] [2]
	CAS: 67-56-1		Acute Tox. 3, H301	
	Index: 603-001-00-X		Acute Tox. 3, H311	
			Acute Tox. 3, H331	
			STOT SE 1, H370	
Butanone	EC: 201-159-0	≤3	Flam. Liq. 2, H225	[1] [2]
	CAS: 78-93-3		Eye Irrit. 2, H319	
	Index: 606-002-00-3		STOT SE 3, H336	
			EUH066	.41 .01
Propan-2-ol	EC: 200-661-7	≤3	Flam. Liq. 2, H225	[1] [2]
	CAS: 67-63-0		Eye Irrit. 2, H319	
0	Index: 603-117-00-0	10.0	STOT SE 3, H336	[4]
2-methoxy-2-methylbutane	EC: 213-611-4	≤2.3	Flam. Liq. 2, H225	[1]
	CAS: 994-05-8		Acute Tox. 4, H302	
Ethanol	Index: 603-213-00-2 EC: 200-578-6	≤3	STOT SE 3, H336 Flam. Lig. 2, H225	[2]
Ellanoi	CAS: 64-17-5	23	Flaiii. Liq. 2, Fi225	[2]
	Index: 603-002-00-5			
2-Mmethylpropan-1-ol	EC: 201-148-0	≤3	Flam. Liq. 3, H226	[1] [2]
2-iviiiicti iyipi opan- i-oi	CAS: 78-83-1	= 0	Skin Irrit. 2, H315	[.,[.]
	Index: 603-108-00-1		Eye Dam. 1, H318	
			STOT SE 3, H335	
			STOT SE 3, H336	
Propan-1-ol	EC: 200-746-9	≤3	Flam. Liq. 2, H225	[1] [2]
- 17	CAS: 71-23-8		Eye Dam. 1, H318	
	Index: 603-003-00-0		STOT SE 3, H336	
tert-Butyl methyl ether	EC: 216-653-1	≤3	Flam. Liq. 2, H225	[1] [2]
	CAS: 1634-04-4		Skin Irrit. 2, H315	
	Index: 603-181-00-X			
Butan-1-ol	EC: 200-751-6	≤2	Flam. Liq. 3, H226	[1] [2]
	CAS: 71-36-3		Acute Tox. 4, H302	
	Index: 603-004-00-6		Skin Irrit. 2, H315	
			Eye Dam. 1, H318	
			STOT SE 3, H335	
O Mathadana a O al	FO. 000 000 7	-0	STOT SE 3, H336	[4] [0]
2-Methylpropan-2-ol	EC: 200-889-7	≤3	Flam. Liq. 2, H225	[1] [2]
	CAS: 75-65-0 Index: 603-005-00-1		Acute Tox. 4, H332	
	muex. 603-005-00-1		Eye Irrit. 2, H319 STOT SE 3, H335	
Butan-2-ol	EC: 201-158-5	≤3	Flam. Liq. 3, H226	[1] [2]
Butail-2-0i	CAS: 78-92-2	33	Eye Irrit. 2, H319	['] [-]
	Index: 603-127-00-5		STOT SE 3, H335	
	111dex. 000-121-00-3		STOT SE 3, H336	
benzene	EC: 200-753-7	<1	Flam. Liq. 2, H225	[1] [2]
201120110	CAS: 71-43-2		Skin Irrit. 2, H315	
	Index: 601-020-00-8		Eye Irrit. 2, H319	
			Muta. 1B, H340	
			Carc. 1A, H350	
			STOT RE 1, H372	
			Asp. Tox. 1, H304	
Cyclohexane	EC: 203-806-2	<1	Flam. Liq. 2, H225	[1] [2]
	CAS: 110-82-7		Skin Irrit. 2, H315	
	Index: 601-017-00-1		STOT SE 3, H336	
			Asp. Tox. 1, H304	

3/19

Date of issue/Date of : 26/03/2018 revision

Test Mixture 14 GASOH, Part Number CP734420					
SECTION 3: Composition/information or	n ingredients				
	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)				
	See Section 16 for the full text of the H statements declared above.				

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- 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

Eye contact

: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.

Inhalation

: Get medical attention immediately. Call a poison center or physician. 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. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

Eet medical attention immediately. Call a poison center or physician. Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: 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. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders

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

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact

: Causes serious eye damage.

Inhalation

: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Date of issue/Date of : 26/03/2018 4/1s

Test Mixture 14 GASOH, Part Number CP734420

SECTION 4: First aid measures

Skin contact : Defatting to the skin. May cause skin dryness and irritation.

Ingestion : Can cause central nervous system (CNS) depression. May be fatal if swallowed and

enters airways.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain watering redness

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact: Adverse symptoms may include the following:

pain or irritation redness dryness

cracking

blistering may occur

Ingestion : Adverse symptoms may include the following:

stomach pains nausea or vomiting

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO2, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

ifighly 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 toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or

drain.

Hazardous combustion

products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide Formaldehyde.

5.3 Advice for firefighters

Special precautions for

fire-fighters

: 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.

Date of issue/Date of : 26/03/2018 **5/19**

Test Mixture 14 GASOH, Part Number CP734420

SECTION 5: Firefighting measures

Special protective equipment for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: 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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

: 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 nonemergency personnel".

6.2 Environmental precautions

: 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.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

: 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.

6.4 Reference to other sections

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

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

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

7.2 Conditions for safe storage, including any incompatibilities

Date of issue/Date of : 26/03/2018 6/19

Test Mixture 14 GASOH, Part Number CP734420

SECTION 7: Handling and storage

Storage

: 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.

Danger criteria

	Notification and MAPP threshold	Safety report threshold
P5c E2		50000 500

7.3 Specific end use(s)

Recommendations: Industrial applications, Professional applications.

Industrial sector specific : Not applicable.

solutions

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
pentane	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	TWA: 600 ppm 8 hours.
	TWA: 1800 mg/m ³ 8 hours.
Methanol	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed
	through skin.
	STEL: 333 mg/m³ 15 minutes.
	STEL: 250 ppm 15 minutes.
	TWA: 266 mg/m³ 8 hours.
	TWA: 200 ppm 8 hours.
Butanone	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed
	through skin.
	STEL: 899 mg/m³ 15 minutes.
	STEL: 300 ppm 15 minutes.
	TWA: 600 mg/m³ 8 hours.
	TWA: 200 ppm 8 hours.
Propan-2-ol	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	STEL: 1250 mg/m³ 15 minutes.
	STEL: 500 ppm 15 minutes.
	TWA: 999 mg/m³ 8 hours.
	TWA: 400 ppm 8 hours.
Ethanol	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	TWA: 1000 ppm 8 hours.
	TWA: 1920 mg/m³ 8 hours.
2-Mmethylpropan-1-ol	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	STEL: 231 mg/m³ 15 minutes.
	STEL: 75 ppm 15 minutes.
	TWA: 154 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
Propan-1-ol	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed
	through skin.
	STEL: 625 mg/m³ 15 minutes.
	STEL: 250 ppm 15 minutes.
i	TWA: 500 mg/m³ 8 hours.

Date of issue/Date of : 26/03/2018 7/19
revision

SECTION 8: Exposure controls/personal protection

TWA: 200 ppm 8 hours.

tert-Butyl methyl ether EH40/2005 WELs (United Kingdom (UK), 12/2011).

STEL: 367 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 183.5 mg/m³ 8 hours. STEL: 100 ppm 15 minutes.

Butan-1-ol EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed

through skin.

STEL: 154 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes.

2-Methylpropan-2-ol EH40/2005 WELs (United Kingdom (UK), 12/2011).

STEL: 462 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 308 mg/m³ 8 hours. TWA: 100 ppm 8 hours.

Butan-2-ol EH40/2005 WELs (United Kingdom (UK), 12/2011).

STEL: 462 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 308 mg/m³ 8 hours. TWA: 100 ppm 8 hours.

benzene EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed

through skin.

TWA: 1 ppm 8 hours.

Cyclohexane EH40/2005 WELs (United Kingdom (UK), 12/2011).

STEL: 1050 mg/m³ 15 minutes. STEL: 300 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 350 mg/m³ 8 hours.

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

Date of issue/Date of : 26/03/2018 8/19

SECTION 8: Exposure controls/personal protection

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 and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

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 antistatic 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 : Liquid. [Clear.] Colour Colourless.

Odour : Characteristic. / Gasoline-like

: Not available. **Odour threshold** pН : Not available. Melting point/freezing point : -130°C

Initial boiling point and

boiling range

: 36°C

: Closed cup: -50°C Flash point **Evaporation rate** : 28.6 (butyl acetate = 1)

Flammability (solid, gas) Upper/lower flammability or

explosive limits

: Not applicable. : Lower: 1.5%

Upper: 7.8%

: 56.8 kPa [room temperature] Vapour pressure

Vapour density : 2.5 [Air = 1]

Date of issue/Date of : 26/03/2018 9/19

Test Mixture 14 GASOH, Part Number CP734420

SECTION 9: Physical and chemical properties

Relative density : 0.63

Solubility(ies) : Very slightly soluble in the following materials: cold water and hot water.

Partition coefficient: n-

octanol/water

: Not available.

Auto-ignition temperature : 260°C

Decomposition temperature: Not available.Viscosity: Not available.Explosive properties: Not available.Oxidising properties: Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld,

braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not

allow vapour to accumulate in low or confined areas.

10.5 Incompatible

materials

: Reactive or incompatible with the following materials:

oxidizing materials

10.6 Hazardous

decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
p entane	LC50 Inhalation Vapour	Rat	364 g/m³	4 hours
Methanol	LC50 Inhalation Vapour	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapour	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
Butanone	LC50 Inhalation Gas.	Rat	11243 ppm	4 hours
	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
Propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-
•	LD50 Oral	Rat	5000 mg/kg	-
2-methoxy-2-methylbutane	LD50 Oral	Rat	1602 mg/kg	-
2-Mmethylpropan-1-ol	LC50 Inhalation Vapour	Rat	19200 mg/m ³	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	2460 mg/kg	-
Propan-1-ol	LC50 Inhalation Vapour	Rat - Male,	>33.8 mg/l	4 hours
		Female		
	LD50 Dermal	Rabbit	5040 mg/kg	-
	LD50 Oral	Rat	1870 mg/kg	-

Date of issue/Date of : 26/03/2018 10/19

SECTION 11: Toxicological information

tert-Butyl methyl ether	LC50 Inhalation Vapour	Rat	41000 mg/m ³	4 hours
	LC50 Inhalation Vapour	Rat	23576 ppm	4 hours
	LD50 Oral	Rat	4 g/kg	-
Butan-1-ol	LC50 Inhalation Vapour	Rat	24000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
2-Methylpropan-2-ol	LC50 Inhalation Vapour	Rat	14100 ppm	4 hours
	LD50 Oral	Rat	2733 mg/kg	-
Butan-2-ol	LC50 Inhalation Vapour	Rat	48500 mg/m ³	4 hours
	LC50 Inhalation Vapour	Rat	8000 ppm	4 hours
	LD50 Oral	Rat	2054 mg/kg	-
benzene	LC50 Inhalation Vapour	Rat	13700 ppm	4 hours
	LD50 Oral	Rat	930 mg/kg	-
Cyclohexane	LC50 Inhalation Vapour	Rat - Male,	>32880 mg/m ³	4 hours
	·	Female		
	LD50 Oral	Rat	6240 mg/kg	-
1	1	1	1	1

Acute toxicity estimates

Route	ATE value		
Oral Dermal Inhalation (vapours)	3621 mg/kg 11811 mg/kg 105.6 mg/l		

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
M ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				milligrams	
	Eyes - Moderate irritant	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				milligrams	
Butanone	Skin - Mild irritant	Rabbit	-	24 hours 14	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				milligrams	
Propan-2-ol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				milligrams	
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	500	-
				milligrams	
2-methoxy-2-methylbutane	Eyes - Severe irritant	Rabbit	-	24 hours 100	-
				microliters	
	Skin - Severe irritant	Rabbit	-	4 hours 500	-
				microliters	
Propan-1-ol	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	500	-
				milligrams	
Butan-1-ol	Eyes - Severe irritant	Rabbit	-	0.005	-
				Mililiters	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				milligrams	
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				milligrams	
2-Methylpropan-2-ol	Eyes - Severe irritant	Rabbit	-	24 hours 100	-
				microliters	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				microliters	
Butan-2-ol	Eyes - Severe irritant	Rabbit	-	0.1 Mililiters	-
benzene	Eyes - Moderate irritant	Rabbit	-	88 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60	-
				microliters	
1	1	1	1	1	I I

Date of issue/Date of : 26/03/2018 11/19 revision

Test Mixture 14 GASOH, Part Number CP734420

SECTION 11: Toxicological information

	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				milligrams	

Skin : Repeated exposure may cause skin dryness or cracking.

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

: Not available. **Conclusion/Summary**

Carcinogenicity

: Not available. **Conclusion/Summary**

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
p entane	Category 3	Not applicable.	Narcotic effects
Methanol	Category 1	Not determined	Not determined
Butanone	Category 3	Not applicable.	Narcotic effects
Propan-2-ol	Category 3	Not applicable.	Narcotic effects
2-methoxy-2-methylbutane	Category 3	Not applicable.	Narcotic effects
2-Mmethylpropan-1-ol	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Propan-1-ol	Category 3	Not applicable.	Narcotic effects
Butan-1-ol	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
2-Methylpropan-2-ol	Category 3	Not applicable.	Respiratory tract irritation
Butan-2-ol	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Cyclohexane	Category 3	Not applicable.	Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
benzene	Category 1	Not determined	Not determined

Aspiration hazard

Product/ingredient name	Result
Test Mixture 14 GASOH, Part Number CP734420 pentane benzene Cyclohexane	ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

Date of issue/Date of : 26/03/2018 12/19

SECTION 11: Toxicological information

Ingestion : Can cause central nervous system (CNS) depression. May be fatal if swallowed and

enters airways.

Skin contact : Defatting to the skin. May cause skin dryness and irritation.

Eye contact : Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Ingestion: Adverse symptoms may include the following:

stomach pains nausea or vomiting

Skin contact: Adverse symptoms may include the following:

pain or irritation

redness dryness cracking

blistering may occur

Eye contact: Adverse symptoms may include the following:

pain 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

General: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or

dermatitis.

Carcinogenicity: May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity: May cause genetic defects.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Other information : Adverse symptoms may include the following: blurred or double vision. Eye contact can

result in corneal damage or blindness. Repeated or prolonged exposure to the

substance can produce liver damage.

Date of issue/Date of : 26/03/2018 **13/19**

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Methanol	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
Butanone	Acute EC50 >500000 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 5091000 µg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours
	Acute LC50 3220000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Propan-2-ol	Acute EC50 10100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours
2-methoxy-2-methylbutane	Acute EC50 >100000 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 >100000 μg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 >100000 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 100000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
2-Mmethylpropan-1-ol	Acute LC50 600 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 1030000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1330000 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 4000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Propan-1-ol	Acute EC50 4480000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 1000000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 2950000 µg/l Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute LC50 3800000 µg/l Marine water	Fish - Alburnus alburnus	96 hours
tert-Butyl methyl ether	Acute EC50 472 mg/l Fresh water	Daphnia	48 hours
	Acute IC50 491 mg/l Fresh water	Algae	72 hours
	Acute LC50 672000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 26 mg/l Marine water	Daphnia	28 days
	Chronic NOEC 3.04 mg/l Fresh water	Fish	21 days
Butan-1-ol	Acute EC50 1983000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 225 mg/l Fresh water	Algae	96 hours
	Acute LC50 1730000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
2-Methylpropan-2-ol	Acute EC50 5504000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 6410000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
Butan-2-ol	Acute EC50 4227000 μg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 3670000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
benzene	Acute EC50 29000 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 1600000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute EC50 9230 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 21 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 5.28 ul/L Fresh water	Fish - Oncorhynchus gorbuscha - Fry	96 hours
	Chronic NOEC 98 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 1.5 to 5.4 ul/L Marine water	Fish - Morone saxatilis - Juvenile (Fledgling, Hatchling,	4 weeks
		Weanling)	
Cyclohexane	Acute LC50 4530 μg/l Fresh water	Fish - Pimephales promelas	96 hours

12.2 Persistence and degradability

Date of issue/Date of 14/19 : 26/03/2018

Test Mixture 14 GASOH, Part Number CP734420

SECTION 12: Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
2 -Methylpropan-2-ol	301E Ready Biodegradability - Modified OECD Screening Test	43 % - 28 days	-	-
benzene	301C Ready Biodegradability - Modified MITI Test (I)	100 % - 14 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Propan-2-ol	-	-	Readily
2-Mmethylpropan-1-ol	-	-	Readily
Propan-1-ol	-	-	Readily
tert-Butyl methyl ether	-	50%; 3.2 day(s)	-
Butan-1-ol	-	-	Readily
2-Methylpropan-2-ol	-	-	Inherent
Butan-2-ol	-	-	Readily
benzene	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
p entane	3.45	171	low
Methanol	-0.77	<10	low
Butanone	0.3	-	low
Propan-2-ol	0.05	-	low
2-methoxy-2-methylbutane	1.55	-	low
2-Mmethylpropan-1-ol	1	3	low
Propan-1-ol	0.2	-	low
tert-Butyl methyl ether	1.04	1.5	low
Butan-1-ol	1	-	low
2-Methylpropan-2-ol	0.317	5.01	low
Butan-2-ol	0.61	-	low
benzene	2.13	11	low
Cyclohexane	3.44	167	low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility

: Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

PVB : Not applicable.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Date of issue/Date of : 26/03/2018 15/19

SECTION 13: Disposal considerations

Methods of disposal

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

Hazardous waste

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

Packaging

Methods of disposal

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

Special precautions

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

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	UN1993	UN1993	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (pentane, Methanol)	LAMMABLE LIQUID, N.O.S. (pentane, Methanol)	Mammable liquid, n.o.s. (pentane, Methanol)
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	₩ .	W.	IV.
14.5 Environmental hazards	Yes.	₩o.	No.

Additional information

Remarks: Excepted Quantity

ADR/RID

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Hazard identification number 33

Limited quantity 1 L

Special provisions 601, 274, 640D

Tunnel code (D/E)

IMDG : Emergency schedules F-E, _S-E_

Special provisions 274

IATA

: The environmentally hazardous substance mark may appear if required by other transportation regulations.

Quantity limitation Passenger and Cargo Aircraft: 5 L. Packaging instructions: 353. Cargo Aircraft Only: 60 L. Packaging instructions: 364. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y341.

Special provisions A3

Date of issue/Date of : 26/03/2018 16/19

Test Mixture 14 GASOH, Part Number CP734420

SECTION 14: Transport information

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 : Restricted to professional users.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

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 P5c E2

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
	UK Occupational Exposure Limits EH40 - WEL	benzene; benzol	Carc.	-

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.

Date of issue/Date of : 26/03/2018 17/19 revision

SECTION 15: Regulatory information

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : Not determined.

Europe : All components are listed or exempted.
 Japan inventory (ENCS): Not determined.
 Japan inventory (ISHL): Not determined.

Malaysia : Not determined.

New Zealand : Not determined.

Philippines : All components are listed or exempted.

Republic of Korea : All components are listed or exempted.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : All components are listed or exempted.

Viet Nam : 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	
Flam. Liq. 2, H225	On basis of test data	
Eye Dam. 1, H318	Calculation method	
Muta. 1B, H340	Calculation method	
Carc. 1A, H350	Calculation method	
STOT SE 3, H336	Calculation method	
Asp. Tox. 1, H304	Expert judgment	
Aquatic Chronic 2, H411	Calculation method	

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

Date of issue/Date of : 26/03/2018 **18/19**

Test Mixture 14 GASOH, Part Number CP734420	
SECTION 16: Other information	
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

Toxic to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Full text of classifications [CLP/GHS]	
Acute Tox. 3, H301	ACUTE TOXICITY (oral) - Category 3
Acute Tox. 3, H311	ACUTE TOXICITY (dermal) - Category 3
Acute Tox. 3, H331	ACUTE TOXICITY (inhalation) - Category 3
Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4
Acute Tox. 4, H332	ACUTE TOXICITY (inhalation) - Category 4
Aquatic Acute 1, H400	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1, H410	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2, H411	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Asp. Tox. 1, H304	ASPIRATION HAZARD - Category 1
Carc. 1A, H350	CARCINOGENICITY - Category 1A
EUH066	Repeated exposure may cause skin dryness or cracking.
Eye Dam. 1, H318	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2, H225	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3, H226	
Muta. 1B, H340	
Skin Irrit. 2, H315	
STOT RE 1, H372	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE
STOT SE 1, H370	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -
	Category 1
STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE
	(Respiratory tract irritation) - Category 3
STOT SE 3, H336	
	(Narcotic effects) - Category 3
Carc. 1A, H350 EUH066 Eye Dam. 1, H318 Eye Irrit. 2, H319 Flam. Liq. 2, H225 Flam. Liq. 3, H226 Muta. 1B, H340 Skin Irrit. 2, H315 STOT RE 1, H372 STOT SE 1, H370 STOT SE 3, H335	CARCINOGENICITY - Category 1A Repeated exposure may cause skin dryness or cracking. SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 GERM CELL MUTAGENICITY - Category 1B SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

Date of issue/ Date of

revision

H400

H410 H411

: 26/03/2018

Date of previous issue : 25/04/2016

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.

Date of issue/Date of : 26/03/2018 19/19