

# SAFETY DATA SHEET



Atomic Emission Detector Sample Kit, Part Number 8500-5067

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

### 1.1 Product identifier

**Product name** : Atomic Emission Detector Sample Kit, Part Number 8500-5067  
**Part no. (chemical kit)** : 8500-5067  
**Part no.** : AED Test Mixture #1 8500-5068-1  
AED Test Mixture #2 8500-5069-1

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

**Material uses** :  Reagents and Standards for Analytical Chemistry Laboratory Use  
AED Test Mixture #1 3 x 0.5 ml  
AED Test Mixture #2 3 x 0.5 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** :  AED Test Mixture #1 Mixture  
AED Test Mixture #2 Mixture

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

##### AED Test Mixture #1

H225 FLAMMABLE LIQUIDS - 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

##### AED Test Mixture #2

H225 FLAMMABLE LIQUIDS - 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

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**SECTION 2: Hazards identification**

**Ingredients of unknown ecotoxicity** : AED Test Mixture #1 Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 4.3%  
 AED Test Mixture #2 Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 4.3%

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

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

**2.2 Label elements**

**Hazard pictograms** : AED Test Mixture #1   
 AED Test Mixture #2 

**Signal word** : AED Test Mixture #1 Danger  
 AED Test Mixture #2 Danger

**Hazard statements** : AED Test Mixture #1 H225 - Highly flammable liquid and vapour.  
 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.  
 AED Test Mixture #2 H225 - Highly flammable liquid and vapour.  
 H304 - May be fatal if swallowed and enters airways.  
 H336 - May cause drowsiness or dizziness.  
 H410 - Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

**Prevention** : AED Test Mixture #1 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.  
 AED Test Mixture #2 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** : AED Test Mixture #1 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.  
 AED Test Mixture #2 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.

**Storage** : AED Test Mixture #1 P405 - Store locked up.  
 AED Test Mixture #2 P405 - Store locked up.

**Disposal** : AED Test Mixture #1 P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.  
 AED Test Mixture #2 P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

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**SECTION 2: Hazards identification**

<b>Hazardous ingredients</b>	: AED Test Mixture #1	- 2,2,4-trimethylpentane
	AED Test Mixture #2	- 2,2,4-trimethylpentane
<b>Supplemental label elements</b>	: AED Test Mixture #1	Repeated exposure may cause skin dryness or cracking.
	AED Test Mixture #2	Repeated exposure may cause skin dryness or cracking.
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: AED Test Mixture #1	Not applicable.
	AED Test Mixture #2	Not applicable.
<b><u>Special packaging requirements</u></b>		
<b>Tactile warning of danger</b>	: AED Test Mixture #1	Not applicable.
	AED Test Mixture #2	Not applicable.

**2.3 Other hazards**

<b>Other hazards which do not result in classification</b>	: AED Test Mixture #1	None known.
	AED Test Mixture #2	None known.

**SECTION 3: Composition/information on ingredients**

<b>3.1 Substances</b>	: AED Test Mixture #1	Mixture
	AED Test Mixture #2	Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
<b>AED Test Mixture #1</b> 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]
dodecane	EC: 203-967-9 CAS: 112-40-3	≤5	Eye Irrit. 2, H319 Asp. Tox. 1, H304 EUH066	[1]
Octane	EC: 203-892-1 CAS: 111-65-9 Index: 601-009-00-8	≤5	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]
<b>AED Test Mixture #2</b> 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]
dodecane	EC: 203-967-9 CAS: 112-40-3	≤5	Eye Irrit. 2, H319 Asp. Tox. 1, H304 EUH066	[1]
Octane	EC: 203-892-1 CAS: 111-65-9 Index: 601-009-00-8	≤5	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]

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### SECTION 3: Composition/information on ingredients

			See Section 16 for the full text of the H statements declared above.	
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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>	: AED Test Mixture #1	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.
	AED Test Mixture #2	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>	: AED Test Mixture #1	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.
	AED Test Mixture #2	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.
<b>Skin contact</b>	: AED Test Mixture #1	Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	AED Test Mixture #2	Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

## SECTION 4: First aid measures

<b>Ingestion</b>	: AED Test Mixture #1	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.
	AED Test Mixture #2	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.
<b>Protection of first-aiders</b>	: AED Test Mixture #1	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.
	AED Test Mixture #2	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>	: AED Test Mixture #1 AED Test Mixture #2	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Inhalation</b>	: AED Test Mixture #1 AED Test Mixture #2	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
<b>Skin contact</b>	: AED Test Mixture #1 AED Test Mixture #2	Defatting to the skin. May cause skin dryness and irritation. Defatting to the skin. May cause skin dryness and irritation.
<b>Ingestion</b>	: AED Test Mixture #1 AED Test Mixture #2	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: AED Test Mixture #1 AED Test Mixture #2	No specific data. No specific data.
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**SECTION 4: First aid measures**

<b>Inhalation</b>	: AED Test Mixture #1	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	AED Test Mixture #2	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
<b>Skin contact</b>	: AED Test Mixture #1	Adverse symptoms may include the following: irritation dryness cracking
	AED Test Mixture #2	Adverse symptoms may include the following: irritation dryness cracking
<b>Ingestion</b>	: AED Test Mixture #1	Adverse symptoms may include the following: nausea or vomiting
	AED Test Mixture #2	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>	: AED Test Mixture #1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	AED Test Mixture #2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: AED Test Mixture #1	No specific treatment.
	AED Test Mixture #2	No specific treatment.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	: AED Test Mixture #1	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
	AED Test Mixture #2	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
<b>Unsuitable extinguishing media</b>	: AED Test Mixture #1	Do not use water jet.
	AED Test Mixture #2	Do not use water jet.

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

<b>Hazards from the substance or mixture</b>	: AED Test Mixture #1	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.
	AED Test Mixture #2	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



## SECTION 5: Firefighting measures

### Hazardous combustion products

: AED Test Mixture #1

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.

Decomposition products may include the following materials:  
carbon dioxide

carbon monoxide

AED Test Mixture #2

Decomposition products may include the following materials:  
carbon dioxide

carbon monoxide

### 5.3 Advice for firefighters

#### Special precautions for fire-fighters

: AED Test Mixture #1

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.

AED Test Mixture #2

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

#### Special protective equipment for fire-fighters

: AED Test Mixture #1

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.

AED Test Mixture #2

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

: AED Test Mixture #1

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.

AED Test Mixture #2

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.

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## SECTION 6: Accidental release measures

<b>For emergency responders</b>	: AED Test Mixture #1	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".
	AED Test Mixture #2	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>	: AED Test Mixture #1	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.
	AED Test Mixture #2	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>	: AED Test Mixture #1	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.
	AED Test Mixture #2	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.	

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

<b>Protective measures</b>	: AED Test Mixture #1	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.
	AED Test Mixture #2	Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin



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## SECTION 7: Handling and storage

### Advice on general occupational hygiene

: AED Test Mixture #1

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.

AED Test Mixture #2

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. 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

#### Storage

: AED Test Mixture #1

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.

AED Test Mixture #2

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

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## SECTION 7: Handling and storage

Category	Notification and MAPP threshold	Safety report threshold
<b>AED Test Mixture #1</b> P5c E1	5000 100	50000 200
<b>AED Test Mixture #2</b> P5c E1	5000 100	50000 200

### 7.3 Specific end use(s)

<b>Recommendations</b>	: AED Test Mixture #1	Industrial applications, Professional applications.
	: AED Test Mixture #2	Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	: AED Test Mixture #1	Not applicable.
	: AED Test Mixture #2	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.

#### 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

**Date of issue/Date of revision** : 30/04/2018

10/20

## 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.
- 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

<b>Physical state</b>	: AED Test Mixture #1 AED Test Mixture #2	Liquid. Liquid.
<b>Colour</b>	: AED Test Mixture #1 AED Test Mixture #2	Clear. Colourless. Clear. Colourless.
<b>Odour</b>	: AED Test Mixture #1 AED Test Mixture #2	Gasoline-like Gasoline-like
<b>Odour threshold</b>	: AED Test Mixture #1 AED Test Mixture #2	Not available. Not available.
<b>pH</b>	: AED Test Mixture #1 AED Test Mixture #2	Not available. Not available.
<b>Melting point/freezing point</b>	: AED Test Mixture #1 AED Test Mixture #2	-107°C -107°C
<b>Initial boiling point and boiling range</b>	: AED Test Mixture #1 AED Test Mixture #2	99.2°C 99.2°C
<b>Flash point</b>	: AED Test Mixture #1 AED Test Mixture #2	Open cup: 4.5°C Open cup: 4.5°C
<b>Evaporation rate</b>	: AED Test Mixture #1 AED Test Mixture #2	Not available. Not available.
<b>Flammability (solid, gas)</b>	: AED Test Mixture #1 AED Test Mixture #2	Not applicable. Not applicable.
<b>Upper/lower flammability or explosive limits</b>	: AED Test Mixture #1 AED Test Mixture #2	Lower: 1.1% Upper: 6% Lower: 1.1% Upper: 6%
<b>Vapour pressure</b>	: AED Test Mixture #1 AED Test Mixture #2	5.5 kPa [room temperature] 5.5 kPa [room temperature]
<b>Vapour density</b>	: AED Test Mixture #1 AED Test Mixture #2	3.93 [Air = 1] 3.93 [Air = 1]
<b>Relative density</b>	: AED Test Mixture #1 AED Test Mixture #2	Not available. Not available.

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**SECTION 9: Physical and chemical properties**

<b>Solubility(ies)</b>	: AED Test Mixture #1	Insoluble in the following materials: cold water and hot water.
	AED Test Mixture #2	Insoluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: AED Test Mixture #1	Not available.
	AED Test Mixture #2	Not available.
<b>Auto-ignition temperature</b>	: AED Test Mixture #1	Not available.
	AED Test Mixture #2	Not available.
<b>Decomposition temperature</b>	: AED Test Mixture #1	Not available.
	AED Test Mixture #2	Not available.
<b>Viscosity</b>	: AED Test Mixture #1	Not available.
	AED Test Mixture #2	Not available.
<b>Explosive properties</b>	: AED Test Mixture #1	Not available.
	AED Test Mixture #2	Not available.
<b>Oxidising properties</b>	: AED Test Mixture #1	Not available.
	AED Test Mixture #2	Not available.

**9.2 Other information**

No additional information.

**SECTION 10: Stability and reactivity**

<b>10.1 Reactivity</b>	: AED Test Mixture #1	No specific test data related to reactivity available for this product or its ingredients.
	AED Test Mixture #2	No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: AED Test Mixture #1	The product is stable.
	AED Test Mixture #2	The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: AED Test Mixture #1	Under normal conditions of storage and use, hazardous reactions will not occur.
	AED Test Mixture #2	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: AED Test Mixture #1	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.
	AED Test Mixture #2	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>	: AED Test Mixture #1	Reactive or incompatible with the following materials: oxidizing materials
	AED Test Mixture #2	Reactive or incompatible with the following materials: oxidizing materials
<b>10.6 Hazardous decomposition products</b>	: AED Test Mixture #1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	AED Test Mixture #2	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	
AED Test Mixture #1 2,2,4-trimethylpentane	LC50 Inhalation Vapour	Rat - Male, Female	>33.52 mg/l	4 hours	
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-	
	dodecane	LC50 Inhalation Dusts and mists	Rat - Male, Female	5.6 mg/l	4 hours
		LD50 Dermal	Rabbit - Male, Female	>5000 mg/kg	-
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-	
Octane	LC50 Inhalation Vapour	Rat	118 g/m <sup>3</sup>	4 hours	
	LC50 Inhalation Vapour	Rat	25260 ppm	4 hours	
	LD50 Oral	Rat	>5000 mg/kg	-	
AED Test Mixture #2 2,2,4-trimethylpentane	LC50 Inhalation Vapour	Rat - Male, Female	>33.52 mg/l	4 hours	
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-	
	dodecane	LC50 Inhalation Dusts and mists	Rat - Male, Female	5.6 mg/l	4 hours
		LD50 Dermal	Rabbit - Male, Female	>5000 mg/kg	-
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-	
Octane	LC50 Inhalation Vapour	Rat	118 g/m <sup>3</sup>	4 hours	
	LC50 Inhalation Vapour	Rat	25260 ppm	4 hours	
	LD50 Oral	Rat	>5000 mg/kg	-	

#### Acute toxicity estimates

Not available.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
AED Test Mixture #1 dodecane	Skin - Moderate irritant	Rat	-	96 hours 300 microliters	-
	Skin - Moderate irritant	Rabbit	-	24 hours 0.05 Milliliters	-
AED Test Mixture #2 dodecane	Skin - Moderate irritant	Rat	-	96 hours 300 microliters	-
	Skin - Moderate irritant	Rabbit	-	24 hours 0.05 Milliliters	-

#### Sensitiser

Conclusion/Summary : Not available.

#### Mutagenicity

Conclusion/Summary : Not available.

#### Carcinogenicity

Conclusion/Summary : Not available.

#### Reproductive toxicity

Conclusion/Summary : Not available.

Atomic Emission Detector Sample Kit, Part Number 8500-5067

## SECTION 11: Toxicological information

### Teratogenicity

Conclusion/Summary : Not available.

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
<b>AED Test Mixture #1</b> 2,2,4-trimethylpentane Octane	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Narcotic effects
<b>AED Test Mixture #2</b> 2,2,4-trimethylpentane Octane	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Narcotic effects

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Product/ingredient name	Result
<b>AED Test Mixture #1</b> AED Test Mixture #1 2,2,4-trimethylpentane dodecane Octane	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
<b>AED Test Mixture #2</b> AED Test Mixture #2 2,2,4-trimethylpentane dodecane Octane	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

**Information on likely routes of exposure** : AED Test Mixture #1  
AED Test Mixture #2

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

### Potential acute health effects

<b>Inhalation</b>	: AED Test Mixture #1 AED Test Mixture #2	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
<b>Ingestion</b>	: AED Test Mixture #1 AED Test Mixture #2	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
<b>Skin contact</b>	: AED Test Mixture #1 AED Test Mixture #2	Defatting to the skin. May cause skin dryness and irritation. Defatting to the skin. May cause skin dryness and irritation.
<b>Eye contact</b>	: AED Test Mixture #1 AED Test Mixture #2	No known significant effects or critical hazards. No known significant effects or critical hazards.

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

<b>Inhalation</b>	: AED Test Mixture #1	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	AED Test Mixture #2	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness



## SECTION 11: Toxicological information

<b>Ingestion</b>	: AED Test Mixture #1	Adverse symptoms may include the following: nausea or vomiting
	AED Test Mixture #2	Adverse symptoms may include the following: nausea or vomiting
<b>Skin contact</b>	: AED Test Mixture #1	Adverse symptoms may include the following: irritation dryness cracking
	AED Test Mixture #2	Adverse symptoms may include the following: irritation dryness cracking
<b>Eye contact</b>	: AED Test Mixture #1	No specific data.
	AED Test Mixture #2	No specific data.

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

#### Short term exposure

<b>Potential immediate effects</b>	: Not available.
<b>Potential delayed effects</b>	: Not available.

#### Long term exposure

<b>Potential immediate effects</b>	: Not available.
<b>Potential delayed effects</b>	: Not available.

### Potential chronic health effects

<b>General</b>	: AED Test Mixture #1	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
	AED Test Mixture #2	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
<b>Carcinogenicity</b>	: AED Test Mixture #1	No known significant effects or critical hazards.
	AED Test Mixture #2	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: AED Test Mixture #1	No known significant effects or critical hazards.
	AED Test Mixture #2	No known significant effects or critical hazards.
<b>Teratogenicity</b>	: AED Test Mixture #1	No known significant effects or critical hazards.
	AED Test Mixture #2	No known significant effects or critical hazards.
<b>Developmental effects</b>	: AED Test Mixture #1	No known significant effects or critical hazards.
	AED Test Mixture #2	No known significant effects or critical hazards.
<b>Fertility effects</b>	: AED Test Mixture #1	No known significant effects or critical hazards.
	AED Test Mixture #2	No known significant effects or critical hazards.
<b>Other information</b>	: AED Test Mixture #1	Adverse symptoms may include the following: Repeated exposure may cause skin dryness or cracking.
	AED Test Mixture #2	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
<b>AED Test Mixture #1</b> 2,2,4-trimethylpentane	Acute LC50 0.11 mg/l Fresh water	Fish	96 hours
<b>AED Test Mixture #2</b> 2,2,4-trimethylpentane	Acute LC50 0.11 mg/l Fresh water	Fish	96 hours

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## SECTION 12: Ecological information

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<b>AED Test Mixture #1</b> dodecane	OECD 301F Ready Biodegradability - Manometric Respirometry Test	76.6 % - Readily - 28 days	-	-
<b>AED Test Mixture #2</b> dodecane	OECD 301F Ready Biodegradability - Manometric Respirometry Test	76.6 % - Readily - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>AED Test Mixture #1</b> dodecane Octane	- -	- -	Readily Readily
<b>AED Test Mixture #2</b> dodecane Octane	- -	- -	Readily Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>AED Test Mixture #1</b> 2,2,4-trimethylpentane dodecane Octane	4.08 6.98 5.18	231 239.88 198.7	low low low
<b>AED Test Mixture #2</b> 2,2,4-trimethylpentane dodecane Octane	4.08 6.98 5.18	231 239.88 198.7	low low 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.

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## 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## 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** : AED Test Mixture #1 Not applicable.  
AED Test Mixture #2 Not applicable.

#### Other EU regulations

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

Not listed.

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

Not listed.

##### Seveso Directive

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## SECTION 15: Regulatory information

This product is controlled under the Seveso Directive.

### Danger criteria

#### Category

##### AED Test Mixture #1

P5c

E1

##### AED Test Mixture #2

P5c

E1

### International regulations

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

Not listed.

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

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.

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

Not listed.

### Inventory list

<b>Australia</b>	: Not determined.
<b>Canada</b>	: <input checked="" type="checkbox"/> Not determined.
<b>China</b>	: Not determined.
<b>Europe</b>	: <input checked="" type="checkbox"/> Not determined.
<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>	: Not determined.
<b>Thailand</b>	: <input checked="" type="checkbox"/> Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: <input checked="" type="checkbox"/> 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.

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## 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
<b>AED Test Mixture #1</b> Flam. Liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	On basis of test data Calculation method Expert judgment Calculation method Calculation method
<b>AED Test Mixture #2</b> Flam. Liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	On basis of test data Calculation method Expert judgment Calculation method Calculation method

### Full text of abbreviated H statements

<b>AED Test Mixture #1</b> H225 H304 H315 H319 H336 H400 H410	Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
<b>AED Test Mixture #2</b> H225 H304 H315 H319 H336 H400 H410	Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye 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]

<b>AED Test Mixture #1</b> Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Asp. Tox. 1, H304 EUH066 Eye Irrit. 2, H319 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 Repeated exposure may cause skin dryness or cracking. SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3
<b>AED Test Mixture #2</b> Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Asp. Tox. 1, H304 EUH066	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 ASPIRATION HAZARD - Category 1 Repeated exposure may cause skin dryness or cracking.

Date of issue/Date of revision : 30/04/2018

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## SECTION 16: Other information

Eye Irrit. 2, H319  
Flam. Liq. 2, H225  
Skin Irrit. 2, H315  
STOT SE 3, H336

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2  
FLAMMABLE LIQUIDS - Category 2  
SKIN CORROSION/IRRITATION - Category 2  
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE  
(Narcotic effects) - Category 3

**Date of issue/ Date of revision** : 30/04/2018

**Date of previous issue** : 14/09/2016

**Version** : 2

### Notice to reader

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