

# SAFETY DATA SHEET



## Acetic acid solution 50-80%

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830

Date of issue : 2016-11-24  
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Version : 5

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

#### 1.1 Product identifier

Product name : Acetic acid solution 50-80%  
Chemical name : acetic acid  
Index number : 607-002-00-6  
EC number : 200-580-7  
CAS number : 64-19-7  
INCI Name : ACETIC ACID  
REACH Registration number : Not available.  
Other means of identification : Ethanoic acid; Glacial acetic acid; Methanecarboxylic acid; acetic acid, of a concentration of more than 10 per cent, by weight, of acetic acid; ACETIC ACID GLACIAL; ACETIC ACID, WATER SOLUTIONS; Vinegar acid; Acetic Acid, Glacial; Ethylic acid

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

(ACETIC ACID, GLACIAL) MANUFACTURE OF ACETIC ANHYDRIDE, CELLULOSE ACETATE, AND VINYL ACETATE MONOMER; ACETIC ESTERS; CHLOROACETIC ACID; PRODUCTION OF PLASTICS, PHARMACEUTICALS, DYES, INSECTICIDES, PHOTOGRAPHIC CHEMICALS, ETC.; FOOD ADDITIVE (ACIDULANT); LATEX COAGULANT; OILWELL ACIDIZER; TEXTILE PRINTING

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

PCC MCAA Sp. z o.o., Sienkiewicza 4, 56-120 Brzeg Dolny, Poland  
Telephone: +48 71 794 3611; Fax: +48 71 794 3517  
E-mail adress: sds.mcaa@pcc.eu

#### 1.4 Emergency telephone number

##### National advisory body/Poison Center

Telephone number : Not available.

##### Supplier

Telephone number : Telephone: +48 71 794 2555, +48 71 794 2441 (available 24h/day) or +48 71 794 2690 (fax) at PCC Rokita SA or the closest local Fire Brigade

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Product definition : Mono-constituent substance

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

Acute Tox. 4, H312  
Acute Tox. 4, H332  
Skin Corr. 1A, H314  
Eye Dam. 1, H318  
Aquatic Chronic 3, H412

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

**Hazard statements**

- : H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H318 Causes serious eye damage.  
 H332 Harmful if inhaled.  
 H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements****Prevention**

- : Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.

**Response**

- : **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. **IF SWALLOWED:** Immediately call a POISON CENTER or physician. Do NOT induce vomiting. **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or physician. **IF IN EYES:** Immediately call a POISON CENTER or physician.

**Storage**

- : Store locked up.

**Disposal**

- : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**2.3 Other hazards**

**Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII** : No.

**Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : No.

**Other hazards which do not result in classification** : None known.

**SECTION 3: Composition/information on ingredients****3.1 Substance** : Mono-constituent substance

Substance	Identifiers	%	Classification	
			Regulation (EC) No. 1272/2008 [CLP/GHS]	Type
<b>Europe</b> acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Austria</b> acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Belgium</b>				

acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Bulgaria</b> acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Croatia</b> acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Czech Republic</b> acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Denmark</b> acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Estonia</b> acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Finland</b> acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>France</b>				

acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Germany</b> acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Greece</b> acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Hungary</b> acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the R-phrases declared above.</b>	[A]
<b>Ireland</b> acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Italy</b> acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Latvia</b> acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Lithuania</b>				

acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Netherlands</b>				
acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Norway</b>				
acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Poland</b>				
acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Portugal</b>				
acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Romania</b>				
acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Slovakia</b>				
acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Slovenia</b>				

acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Spain</b> acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Sweden</b> acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Switzerland</b> acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>Turkey</b> acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]
<b>United Kingdom (UK)</b> acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-002-00-6	50 - 80	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[A]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

#### Type

[A] Constituent

[B] Impurity

[C] Stabilizing additive

#### 3.2 Mixture

: Not applicable.

## SECTION 4: First aid measures

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### 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** : Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. 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. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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** : Harmful if inhaled.
- Skin contact** : Causes severe burns. Harmful in contact with skin.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

### 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


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### 5.1 Extinguishing media

**Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, 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** :  Flammable liquid and vapor. 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 vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

### 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.

**Special protective equipment for fire-fighters** : 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

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### 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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized 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".

**6.2 Environmental precautions** : Avoid dispersal of spilled 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.

**6.3 Methods and materials for containment and cleaning up** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.



- 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

The information in this section contains generic advice and guidance.

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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

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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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

##### Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
5c	5000	50000

### 7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance.

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
Europe acetic acid	<b>EU OEL (Europe, 12/2009). Notes: list of indicative occupational exposure limit values</b> TWA: 10 ppm 8 hours. TWA: 25 mg/m <sup>3</sup> 8 hours.
acetic acid	<b>EU OEL (Europe, 12/2009). Notes: list of indicative occupational exposure limit values</b> TWA: 10 ppm 8 hours. TWA: 25 mg/m <sup>3</sup> 8 hours.
Austria	

acetic acid

acetic acid

#### Belgium

acetic acid

acetic acid

#### Bulgaria

acetic acid

acetic acid

#### Croatia

acetic acid

acetic acid

#### Czech Republic

acetic acid

acetic acid

#### Denmark

acetic acid

acetic acid

#### Estonia

#### Regulation on Limit Values - MAC (Austria, 12/2011).

TWA: 10 ppm 8 hours.

TWA: 25 mg/m<sup>3</sup> 8 hours.

CEIL: 20 ppm, 8 times per shift, 5 minutes.

CEIL: 50 mg/m<sup>3</sup>, 8 times per shift, 5 minutes.

#### Regulation on Limit Values - MAC (Austria, 12/2011).

TWA: 10 ppm 8 hours.

TWA: 25 mg/m<sup>3</sup> 8 hours.

CEIL: 20 ppm, 8 times per shift, 5 minutes.

CEIL: 50 mg/m<sup>3</sup>, 8 times per shift, 5 minutes.

#### Limit values (Belgium, 4/2014).

TWA: 10 ppm 8 hours.

TWA: 25 mg/m<sup>3</sup> 8 hours.

STEL: 15 ppm 15 minutes.

STEL: 38 mg/m<sup>3</sup> 15 minutes.

#### Limit values (Belgium, 4/2014).

TWA: 10 ppm 8 hours.

TWA: 25 mg/m<sup>3</sup> 8 hours.

STEL: 15 ppm 15 minutes.

STEL: 38 mg/m<sup>3</sup> 15 minutes.

#### Minister of Labour and Social Affairs and the Minister of Health (Bulgaria, 1/2012).

Limit value 15 min: 37 mg/m<sup>3</sup> 15 minutes.

Limit value 8 hours: 25 mg/m<sup>3</sup> 8 hours.

#### Minister of Labour and Social Affairs and the Minister of Health (Bulgaria, 1/2012).

Limit value 15 min: 37 mg/m<sup>3</sup> 15 minutes.

Limit value 8 hours: 25 mg/m<sup>3</sup> 8 hours.

#### Ministry of Economy, Labour and Entrepreneurship ELV/STELV (Croatia, 6/2013).

ELV: 25 mg/m<sup>3</sup> 8 hours.

ELV: 10 ppm 8 hours.

#### Ministry of Economy, Labour and Entrepreneurship ELV/STELV (Croatia, 6/2013).

ELV: 25 mg/m<sup>3</sup> 8 hours.

ELV: 10 ppm 8 hours.

#### Ministry of Health, PEL/NPK-P (Czech Republic, 1/2016).

TWA: 25 mg/m<sup>3</sup> 8 hours.

TWA: 10,2 ppm 8 hours.

STEL: 35 mg/m<sup>3</sup> 15 minutes.

STEL: 14,28 ppm 15 minutes.

#### Ministry of Health, PEL/NPK-P (Czech Republic, 1/2016).

TWA: 25 mg/m<sup>3</sup> 8 hours.

TWA: 10,2 ppm 8 hours.

STEL: 35 mg/m<sup>3</sup> 15 minutes.

STEL: 14,28 ppm 15 minutes.

#### Working Environment Authority (Denmark, 10/2012).

TWA: 10 ppm 8 hours.

TWA: 25 mg/m<sup>3</sup> 8 hours.

#### Working Environment Authority (Denmark, 10/2012).

TWA: 10 ppm 8 hours.

TWA: 25 mg/m<sup>3</sup> 8 hours.

acetic acid

acetic acid

#### Finland

acetic acid

acetic acid

#### France

acetic acid

acetic acid

#### Germany

acetic acid

acetic acid

#### Greece

acetic acid

acetic acid

#### Occupational exposure limits, Regulation No. 293 (Estonia, 1/2008).

TWA: 25 mg/m<sup>3</sup> 8 hours.

TWA: 10 ppm 8 hours.

STEL: 25 mg/m<sup>3</sup> 15 minutes.

STEL: 10 ppm 15 minutes.

#### Occupational exposure limits, Regulation No. 293 (Estonia, 1/2008).

TWA: 25 mg/m<sup>3</sup> 8 hours.

TWA: 10 ppm 8 hours.

STEL: 25 mg/m<sup>3</sup> 15 minutes.

STEL: 10 ppm 15 minutes.

#### Institute of Occupational Health, Ministry of Social Affairs (Finland, 3/2014).

TWA: 5 ppm 8 hours.

TWA: 13 mg/m<sup>3</sup> 8 hours.

STEL: 10 ppm 15 minutes.

STEL: 25 mg/m<sup>3</sup> 15 minutes.

#### Institute of Occupational Health, Ministry of Social Affairs (Finland, 3/2014).

TWA: 5 ppm 8 hours.

TWA: 13 mg/m<sup>3</sup> 8 hours.

STEL: 10 ppm 15 minutes.

STEL: 25 mg/m<sup>3</sup> 15 minutes.

#### Ministry of Labor (France, 7/2012). Notes: Ministry of Labour (Brochure INRS Ed 984, July 2012). Indicative exposure limits

STEL: 10 ppm 15 minutes.

STEL: 25 mg/m<sup>3</sup> 15 minutes.

#### Ministry of Labor (France, 7/2012). Notes: Ministry of Labour (Brochure INRS Ed 984, July 2012). Indicative exposure limits

STEL: 10 ppm 15 minutes.

STEL: 25 mg/m<sup>3</sup> 15 minutes.

#### TRGS 900 OEL (Germany, 11/2015).

TWA: 25 mg/m<sup>3</sup> 8 hours.

TWA: 10 ppm 8 hours.

PEAK: 50 mg/m<sup>3</sup> 15 minutes.

PEAK: 20 ppm 15 minutes.

#### DFG MAC-values list (Germany, 7/2015).

TWA: 10 ppm 8 hours.

PEAK: 20 ppm, 4 times per shift, 15 minutes.

TWA: 25 mg/m<sup>3</sup> 8 hours.

PEAK: 50 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.

#### TRGS 900 OEL (Germany, 11/2015).

TWA: 25 mg/m<sup>3</sup> 8 hours.

TWA: 10 ppm 8 hours.

PEAK: 50 mg/m<sup>3</sup> 15 minutes.

PEAK: 20 ppm 15 minutes.

#### DFG MAC-values list (Germany, 7/2015).

TWA: 10 ppm 8 hours.

PEAK: 20 ppm, 4 times per shift, 15 minutes.

TWA: 25 mg/m<sup>3</sup> 8 hours.

PEAK: 50 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.

#### Ministry of Labour and Social Affairs (Greece, 2/2012).

TWA: 10 ppm 8 hours.

TWA: 25 mg/m<sup>3</sup> 8 hours.

STEL: 15 ppm 15 minutes.

STEL: 37 mg/m<sup>3</sup> 15 minutes.

#### Ministry of Labour and Social Affairs (Greece, 2/2012).

TWA: 10 ppm 8 hours.

TWA: 25 mg/m<sup>3</sup> 8 hours.

STEL: 15 ppm 15 minutes.

STEL: 37 mg/m<sup>3</sup> 15 minutes.

<b>Hungary</b>	
acetic acid	<b>25/2000. (IX.30) Ministry of Health and Ministry of Social and Family Affairs Joint Decree (Hungary, 12/2011).</b> TWA: 25 mg/m <sup>3</sup> 8 hours. PEAK: 25 mg/m <sup>3</sup> 15 minutes.
acetic acid	<b>25/2000. (IX.30) Ministry of Health and Ministry of Social and Family Affairs Joint Decree (Hungary, 12/2011).</b> TWA: 25 mg/m <sup>3</sup> 8 hours. PEAK: 25 mg/m <sup>3</sup> 15 minutes.
<b>Ireland</b>	
acetic acid	<b>NAOSH (Ireland, 3/2016).</b> OELV-8hr: 10 ppm 8 hours. OELV-8hr: 25 mg/m <sup>3</sup> 8 hours. OELV-15min: 15 ppm 15 minutes. OELV-15min: 37 mg/m <sup>3</sup> 15 minutes.
acetic acid	<b>NAOSH (Ireland, 3/2016).</b> OELV-8hr: 10 ppm 8 hours. OELV-8hr: 25 mg/m <sup>3</sup> 8 hours. OELV-15min: 15 ppm 15 minutes. OELV-15min: 37 mg/m <sup>3</sup> 15 minutes.
<b>Italy</b>	
acetic acid	<b>EU OEL (Europe, 12/2009). Notes: list of indicative occupational exposure limit values</b> TWA: 10 ppm 8 hours. TWA: 25 mg/m <sup>3</sup> 8 hours.
acetic acid	<b>EU OEL (Europe, 12/2009). Notes: list of indicative occupational exposure limit values</b> TWA: 10 ppm 8 hours. TWA: 25 mg/m <sup>3</sup> 8 hours.
<b>Latvia</b>	
acetic acid	<b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 6/2015).</b> TWA: 10 ppm 8 hours. TWA: 25 mg/m <sup>3</sup> 8 hours.
acetic acid	<b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 6/2015).</b> TWA: 10 ppm 8 hours. TWA: 25 mg/m <sup>3</sup> 8 hours.
<b>Lithuania</b>	
acetic acid	<b>Lithuanian Hygiene Standard HN 23 (Lithuania, 10/2007).</b> TWA: 25 mg/m <sup>3</sup> 8 hours. TWA: 10 ppm 8 hours.
acetic acid	<b>Lithuanian Hygiene Standard HN 23 (Lithuania, 10/2007).</b> TWA: 25 mg/m <sup>3</sup> 8 hours. TWA: 10 ppm 8 hours.
<b>Netherlands</b>	
acetic acid	<b>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 2/2016).</b> OEL, 8-h TWA: 25 mg/m <sup>3</sup> 8 hours.
acetic acid	<b>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 2/2016).</b> OEL, 8-h TWA: 25 mg/m <sup>3</sup> 8 hours.
<b>Norway</b>	
acetic acid	<b>FOR-2011-12-06-1358 (Norway, 6/2015).</b> TWA: 10 ppm 8 hours. TWA: 25 mg/m <sup>3</sup> 8 hours.
acetic acid	<b>FOR-2011-12-06-1358 (Norway, 6/2015).</b> TWA: 10 ppm 8 hours. TWA: 25 mg/m <sup>3</sup> 8 hours.
<b>Poland</b>	

acetic acid	<b>Regulation of the Minister of Family, Labor and Social Policy (J of Laws 2018, item 1286) (Poland, 6/2014).</b> TWA: 25 mg/m <sup>3</sup> 8 hours. STEL: 50 mg/m <sup>3</sup> 15 minutes.
acetic acid	<b>Regulation of the Minister of Family, Labor and Social Policy (J of Laws 2018, item 1286) (Poland, 6/2014).</b> TWA: 25 mg/m <sup>3</sup> 8 hours. STEL: 50 mg/m <sup>3</sup> 15 minutes.
<b>Portugal</b>	
acetic acid	<b>Portuguese Institute of Quality (Portugal, 11/2014).</b> TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes.
acetic acid	<b>Portuguese Institute of Quality (Portugal, 11/2014).</b> TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes.
<b>Romania</b>	
acetic acid	<b>HG 1218/2006 with subsequent modifications and additions (Romania, 1/2012).</b> VLA: 25 mg/m <sup>3</sup> 8 hours. VLA: 10 ppm 8 hours.
acetic acid	<b>HG 1218/2006 with subsequent modifications and additions (Romania, 1/2012).</b> VLA: 25 mg/m <sup>3</sup> 8 hours. VLA: 10 ppm 8 hours.
<b>Slovakia</b>	
acetic acid	<b>Government regulation SR c. 355/2006 (Slovakia, 4/2015).</b> TWA: 25 mg/m <sup>3</sup> 8 hours. TWA: 10 ppm 8 hours.
acetic acid	<b>Government regulation SR c. 355/2006 (Slovakia, 4/2015).</b> TWA: 25 mg/m <sup>3</sup> 8 hours. TWA: 10 ppm 8 hours.
<b>Slovenia</b>	
acetic acid	<b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 6/2015).</b> TWA: 25 mg/m <sup>3</sup> 8 hours. TWA: 10 ppm 8 hours.
acetic acid	<b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 6/2015).</b> TWA: 25 mg/m <sup>3</sup> 8 hours. TWA: 10 ppm 8 hours.
<b>Spain</b>	
acetic acid	<b>National institute of occupational safety and health (Spain, 1/2016).</b> TWA: 10 ppm 8 hours. TWA: 25 mg/m <sup>3</sup> 8 hours. STEL: 15 ppm 15 minutes. STEL: 37 mg/m <sup>3</sup> 15 minutes.
acetic acid	<b>National institute of occupational safety and health (Spain, 1/2016).</b> TWA: 10 ppm 8 hours. TWA: 25 mg/m <sup>3</sup> 8 hours. STEL: 15 ppm 15 minutes. STEL: 37 mg/m <sup>3</sup> 15 minutes.
<b>Sweden</b>	
acetic acid	<b>Work environment authority Regulation 2018:1 (Sweden, 12/2015).</b> TWA: 5 ppm 8 hours. TWA: 13 mg/m <sup>3</sup> 8 hours. STEL: 10 ppm 15 minutes. STEL: 25 mg/m <sup>3</sup> 15 minutes.
acetic acid	<b>Work environment authority Regulation 2018:1 (Sweden, 12/2015).</b> TWA: 5 ppm 8 hours. TWA: 13 mg/m <sup>3</sup> 8 hours. STEL: 10 ppm 15 minutes. STEL: 25 mg/m <sup>3</sup> 15 minutes.
<b>Switzerland</b>	

acetic acid	<b>SUVA (Switzerland, 1/2016).</b> TWA: 10 ppm 8 hours. TWA: 25 mg/m <sup>3</sup> 8 hours. STEL: 20 ppm 15 minutes. STEL: 50 mg/m <sup>3</sup> 15 minutes.
acetic acid	<b>SUVA (Switzerland, 1/2016).</b> TWA: 10 ppm 8 hours. TWA: 25 mg/m <sup>3</sup> 8 hours. STEL: 20 ppm 15 minutes. STEL: 50 mg/m <sup>3</sup> 15 minutes.
<b>Turkey</b>	
acetic acid	<b>TR ISGGM OEL (Turkey, 12/2013).</b> TWA: 25 mg/m <sup>3</sup> 8 hours. TWA: 10 ppm 8 hours.
acetic acid	<b>TR ISGGM OEL (Turkey, 12/2013).</b> TWA: 25 mg/m <sup>3</sup> 8 hours. TWA: 10 ppm 8 hours.
<b>United Kingdom (UK)</b>	
acetic acid	<b>EU OEL (Europe, 12/2009). Notes: list of indicative occupational exposure limit values</b> TWA: 10 ppm 8 hours. TWA: 25 mg/m <sup>3</sup> 8 hours.
acetic acid	<b>EU OEL (Europe, 12/2009). Notes: list of indicative occupational exposure limit values</b> TWA: 10 ppm 8 hours. TWA: 25 mg/m <sup>3</sup> 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.

**Derived effect levels**

No DELs available.

**Predicted effect concentrations**

No PECs 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, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Individual protection measures**

**Hygiene measures**

- : Wash hands, forearms and face thoroughly after handling chemical product, 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**

<b>Hand protection</b>	: 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. Wear suitable gloves tested to EN374.
<b>Body protection</b>	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
<b>Other skin protection</b>	: 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.
<b>Respiratory protection</b>	: 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.
<b>Environmental exposure controls</b>	: 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>	: Liquid.
<b>Color</b>	: Colorless.
<b>Odor</b>	: Pungent.
<b>Odor threshold</b>	: Not available.
<b>pH</b>	: 2,4
<b>Melting point/freezing point</b>	: 16,64°C
<b>Initial boiling point and boiling range</b>	: 117,9°C
<b>Flash point</b>	: Closed cup: 39°C
<b>Evaporation rate</b>	: 1,34 (butyl acetate = 1)
<b>Flammability (solid, gas)</b>	: Not available.
<b>Upper/lower flammability or explosive limits</b>	: Lower: 4% Upper: 19,9%
<b>Vapor pressure</b>	: 2,1 kPa [room temperature]
<b>Vapor density</b>	: 2,1 [Air = 1]
<b>Density</b>	: 1,04 g/cm <sup>3</sup> [25°C]
<b>Relative density</b>	: 1,05
<b>Solubility(ies)</b>	: Not available.
<b>Solubility in water at room temperature (g/l)</b>	: 602,9 g/l
<b>Partition coefficient: n-octanol/water</b>	: -0,17
<b>Auto-ignition temperature</b>	: 463°C
<b>Decomposition temperature</b>	: Not available.
<b>Viscosity</b>	: Dynamic (room temperature): 1,06 mPa·s
<b>Explosive properties</b>	: Not available.
<b>Oxidizing properties</b>	: Not available.
<b>Additional information</b>	: Not available.

### 9.2 Other information

No additional information.

Note: Integers (i.e. 3 or 7) should be read as decimals (3.0 or 7.0)

## 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 pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor 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
acetic acid	LC50 Inhalation Vapor	Rat	11000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	1060 mg/kg	-
	LD50 Oral	Rat	3310 mg/kg	-
acetic acid	LC50 Inhalation Vapor	Rat	11000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	1060 mg/kg	-
	LD50 Oral	Rat	3310 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
acetic acid	Eyes - Mild irritant	Rabbit	-	0,5 minutes 5 milligrams	-
	Skin - Mild irritant	Human	-	24 hours 50 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 50 milligrams	-
acetic acid	Skin - Severe irritant	Rabbit	-	525 milligrams	-
	Eyes - Mild irritant	Rabbit	-	0,5 minutes 5 milligrams	-
	Skin - Mild irritant	Human	-	24 hours 50 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 50 milligrams	-
	Skin - Severe irritant	Rabbit	-	525 milligrams	-

**Conclusion/Summary** : Not available.

#### Sensitizer

**Conclusion/Summary** : Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

**Conclusion/Summary** : Not available.

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



Not available.

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

**Potential acute health effects**

- Inhalation** : Harmful if inhaled.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : Causes severe burns. Harmful in contact with skin.
- Eye contact** : Causes serious eye damage.

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

- Inhalation** : No specific data.
- Ingestion** : Adverse symptoms may include the following:  
stomach pains
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness

**Delayed and immediate effects and also 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.

**SECTION 12: Ecological information**

**12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
acetic acid	Acute EC50 73400 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 65000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
acetic acid	Acute LC50 75000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute EC50 73400 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 65000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 75000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours

**12.2 Persistence and degradability**

- Conclusion/Summary** : Not available.

**12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
acetic acid	-0,17	3,16	low
acetic acid	-0,17	3,16	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 : No.  
P: Not available. B: No. T: No.

vPvB : No.  
vP: Not available. vB: No.

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

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product

**Methods of disposal** : The generation of waste should be avoided or minimized 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 or 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 minimized 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. Vapor 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

### SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	UN2790	UN2790	UN2790
14.2 UN proper shipping name	ACETIC ACID SOLUTION	ACETIC ACID SOLUTION	Acetic acid solution
14.3 Transport hazard class(es)	8 	8 	8 
14.4 Packing group	II	II	II
14.5 Environmental hazards	No.	No.	No.
Additional information	<b>Hazard identification number</b> 80 <b>Limited quantity</b> 1 L <b>Tunnel code</b> (E)	<b>Emergency schedules</b> F-A, S-B	<b>Quantity limitation</b> Passenger and Cargo Aircraft: 1 L. Packaging instructions: 851. Cargo Aircraft Only: 30 L. Packaging instructions: 855. Limited Quantities - Passenger Aircraft: 0,5 L. Packaging instructions: Y840.

**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**

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

REGULATION (EC) NO 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

The European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) constituting Appendix C to the Convention concerning International Carriage by Rail (COTIF)

International Maritime Dangerous Goods Code (IMDG CODE)

IATA /International Air Transport Association/ Dangerous Goods Regulations (IATA DGR)

Ordinance of the Minister of Labour and Social Policy of 12 June 2018 concerning maximum permissible concentrations and intensities of agents harmful to health in a work environment (Journal of Laws 2018 item 1286).

Act on Waste of 14 December 2012 (Dz. U. /Journal of Laws/ of 2013, No. 0, item 21)

Act on Packaging and Packaging Waste Management of 13 June 2013 (Dz. U. /Journal of Laws/ of 2013, No. 0, item 888)

Act on Chemical Substances and Their Mixtures of 25 February 2011 (Dz. U. /Journal of Laws/ No. 63, item 322)

Regulation of the Minister of Labour and Social Policy on the general occupational health and safety regulations of 26 September 1997 (Dz. U. /Journal of Laws/ of 2003, No. 169, item 1650 as amended)

#### **Annex XIV - List of substances subject to authorization**

##### **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** : Not applicable.

#### **Other EU regulations**


**Europe inventory** : All components are listed or exempted.

**Priority List Chemicals** : Not determined

##### **Seveso Directive**

This product is controlled under the Seveso Directive.

##### **Danger criteria**

Category
 5c

#### **National regulations**

##### **Austria**

**VbF class** : B II  
Very dangerous flammable liquid.

**Limitation of the use of organic solvents** : Permitted.

Belgium

Bulgaria

Croatia

Czech Republic

Storage code : II

Denmark

Danish fire class : II-2

MAL-code : 5-4

Protection based on MAL : **According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:**

**General:** Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 5-4

**Application:** When using scraper or knife, brush, roller etc. for pre- and post-treatments in a spray booth where the operator is outside the spray zone and when working in similar new\* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in new\* booths and cabins with non-atomizing guns.

- Protective clothing must be worn.

During non-atomizing spraying in existing\* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in existing\* spray booths, if the operator is outside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments in cabins or booths of the existing\* facility type, if the operator is inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin. During downtimes, cleaning and repair of closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents.

- Air-supplied full mask and protective clothing must be worn.

When spraying in new\* booths if the operator is outside the spray zone.

- Air-supplied full mask must be worn.

During all spraying where atomization occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Air-supplied full mask, protective clothing and hood must be worn.

**Drying:** Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc. must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

**Polishing:** When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

**Caution** The regulations contain other stipulations in addition to the above.

\*See Regulations.

**Restrictions on use** : Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.

List of undesirable substances : Not listed

**Estonia**

**Finland**


**France**

Reinforced medical surveillance : Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable

**Germany**

Storage code : 3

Hazardous incident ordinance : Applicable. Category: 6 Flammable.

Hazard class for water : 

Technical instruction on air quality control : TA-Luft Class II - Number 5.2.5

**Greece**

**Hungary**

**Ireland**


**Italy**

D.Lgs. 152/06 : Not classified.

**Latvia**

**Lithuania**

**Netherlands**

Water Discharge Policy (ABM) :  (3) Hazardous for aquatic organisms, may have long-term hazardous effects in aquatic environment. Decontamination effort: A

**Norway**

**Poland**

**Portugal**

**Romania**

**Slovakia**

**Slovenia**

**Spain**

**Sweden**

**Switzerland**

VOC content : VOC (w/w): 100%

**Turkey**

**United Kingdom (UK)**

15.2 Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

## SECTION 16: Other information

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Changes to the Safety Data Sheet :

Training advice : Ensure operatives are trained to minimise exposures.

Abbreviations and acronyms : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
CMR = Carcinogen, Mutagen or Reproductive toxicant  
CSA = Chemical Safety Assessment

CSR = Chemical Safety Report  
 DNEL = Derived No Effect Level  
 EC number = EINECS or ELINCS number  
 EC50 = Half maximal effective concentration  
 ES = Exposure Scenario  
 EUH statement = CLP-specific Hazard statement  
 EWC = European Waste Catalogue  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 H statement = CLP/GHS Hazard statement  
 IATA = International Air Transport Association  
 IC50 = Half maximal inhibitory concentration  
 IMDG = International Maritime Dangerous Goods  
 LC50 = Median lethal concentration  
 LD50 = Median lethal dose  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 OECD = Organisation for Economic Co-operation and Development  
 PBT = Persistent, Bioaccumulative and Toxic  
 PNEC = Predicted No Effect Concentration  
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]  
 RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
 RRN = REACH Registration Number  
 STOT = Specific Target Organ Toxicity  
 SVHC = Substances of Very High Concern  
 VOC = Volatile Organic Compound  
 vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Acute Tox. 4, H312	On basis of test data
Acute Tox. 4, H332	On basis of test data
Skin Corr. 1A, H314	Regulatory data
Eye Dam. 1, H318	Regulatory data
Aquatic Chronic 3, H412	Calculation method

**Europe**

<b>Full text of abbreviated H statements</b>	: H312 H314 H318 H332 H412	Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A

**Austria**

<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A

**Belgium**

<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A

### **Bulgaria**

<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A

### **Croatia**

<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A

### **Czech Republic**

<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A

### **Denmark**

<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
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<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A
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**Estonia**

<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
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<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A
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**Finland**

<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
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<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A
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**France**

<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
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<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A
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**Germany**

<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
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<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A
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**Greece**



<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A
<b><u>Hungary</u></b>		
	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A
<b><u>Ireland</u></b>		
<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A
<b><u>Italy</u></b>		
<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A
<b><u>Latvia</u></b>		
<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.

<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A
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**Lithuania**

<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
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<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A
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**Netherlands**

<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
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<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A
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**Norway**

<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
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<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A
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**Poland**

<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
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<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A
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**Portugal**

<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A
<b>Romania</b>		
<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A
<b>Slovakia</b>		
<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A
<b>Slovenia</b>		
<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A
<b>Spain</b>		
<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.

<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A
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**Sweden**

<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
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<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A
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**Switzerland**

<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
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<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A
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**Turkey**

<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
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<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A
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**United Kingdom (UK)**

<b>Full text of abbreviated H statements</b>	: H226 H312 H314 H318 H332 H412	Flammable liquid and vapor. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life with long lasting effects.
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<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Flam. Liq. 3, H226 Skin Corr. 1A, H314	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1A
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**Notice to reader**

The information contained herein is accurate to the latest knowledge and describes the product from the point of view of help and environmental protection as well as safe handling. The information presented in this SDS refers to the technical product only and will not apply to any processed product. Final determination of the suitability of any materials for the chosen application(s) is the sole responsibility of the user"