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## SAFETY DATA SHEET

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

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

#### 1.1 Product identifier

**Product identifier** : HAR/SF  
**Product name** : HM50 SOLUTION  
**Product type** : Liquid.  
**Other means of identification** : HAR/SF  
**Date of issue/ Date of revision** : 19 February 2026  
**Version** : 1.01  
**Date of previous issue** : 1 October 2025

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

**Identified uses** : Coating component.  
**Uses advised against** : Not for sale to or use by consumers.

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

U-POL NETHERLANDS B.V,  
DE GEER 14,  
4004LT TIEL,  
NETHERLANDS  
+31 20 240 2216  
sds-competence@axalta.com

**e-mail address of person responsible for this SDS** : sds-competence@axalta.com

#### National contact

U-POL LTD,  
DENINGTON ROAD,  
WELLINGBOROUGH,  
NN8 2QH  
+44 (0) 1933 230310  
sds-competence@axalta.com

#### 1.4 Emergency telephone number

##### National advisory body/Poison Centre

**Telephone number** : 010-456 6700 (9:00-17:00);112

##### Supplier

+(44)-870-8200418

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

Flam. Liq. 2, H225

Skin Corr. 1B, H314

Eye Dam. 1, H318

STOT SE 3, H336

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

**Contains** : ethyl acetate  
Methyl Ethyl Ketone Peroxide, <= 45%

**Hazard statements** : H225 - Highly flammable liquid and vapour.  
H314 - Causes severe skin burns and eye damage.  
H336 - May cause drowsiness or dizziness.

**Precautionary statements**

**Prevention** : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Response** : P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P310 - IF ON SKIN (or hair): Immediately call a POISON CENTER or doctor.  
P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor.

**Storage** : Not applicable.

**Disposal** : Not applicable.

**Supplemental label elements** : Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## SECTION 2: Hazards identification

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

## SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6	≥50 - ≤75	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
Methyl Ethyl Ketone Peroxide, ≤ 45%	REACH #: 01-2119514691-43 EC: 700-954-4 CAS: 1338-23-4	≥10 - ≤25	Org. Perox. D, H242 Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318  <b>See Section 16 for the full text of the H statements declared above.</b>	Org. Perox. D, H242: C ≥ 30% ATE [Oral] = 1017 mg/kg ATE [Inhalation (dusts and mists)] = 1.5 mg/l	[1] [2]

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

[1] Substance classified with a physical, health or environmental hazard

[2] Substance with a workplace exposure limit

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
- 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

## SECTION 4: First aid measures

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

### 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.

See toxicological information (Section 11)

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray.

**Unsuitable extinguishing media** : Do not use water jet.

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

**Hazards from the substance or mixture** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

**Hazardous combustion products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

### 5.3 Advice for firefighters

**Special protective actions for fire-fighters** : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

**Special protective equipment for fire-fighters** : Appropriate breathing apparatus may be required.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel** : Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**6.2 Environmental precautions** : Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

**6.3 Methods and material for containment and cleaning up** : 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 (see Section 13). Preferably clean with a detergent. Avoid using solvents.

**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. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

**7.1 Precautions for safe handling** : Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or watercourses.

**Information on fire and explosion protection**  
Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

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

## SECTION 7: Handling and storage

Store in accordance with local regulations.

### Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

### Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

### Seveso Directive - Reporting thresholds

#### Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonnes	50000 tonnes

### 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. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Identifiers	Exposure limit values
ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6	<b>Work environment authority Regulation 2018:1 (Sweden, 11/2022)</b> TWA 8 hours: 150 ppm. TWA 8 hours: 550 mg/m <sup>3</sup> . STEL 15 minutes: 300 ppm. STEL 15 minutes: 1100 mg/m <sup>3</sup> . <b>EU OEL (Europe, 1/2022)</b> STEL 15 minutes: 400 ppm. STEL 15 minutes: 1468 mg/m <sup>3</sup> . TWA 8 hours: 200 ppm. TWA 8 hours: 734 mg/m <sup>3</sup> .
Methyl Ethyl Ketone Peroxide, <= 45%	REACH #: 01-2119514691-43 EC: 700-954-4 CAS: 1338-23-4	<b>Work environment authority Regulation 2018:1 (Sweden, 11/2022)</b> STEL 15 minutes: 0.2 ppm. STEL 15 minutes: 1.5 mg/m <sup>3</sup> .

#### Biological exposure indices

No exposure indices known.

## SECTION 8: Exposure controls/personal protection

**Recommended monitoring procedures** : 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

#### Product/ingredient name

ethyl acetate

#### Result

##### **DNEL - Workers - Long term - Inhalation**

200 ppm

Effects: Systemic

##### **DNEL - Workers - Long term - Dermal**

63 mg/kg bw/day

Effects: Systemic

##### **DNEL - General population - Long term - Oral**

4.5 mg/kg bw/day

Effects: Systemic

##### **DNEL - General population - Long term - Dermal**

37 mg/kg bw/day

Effects: Systemic

##### **DNEL - Workers - Long term - Dermal**

63 mg/kg bw/day

Effects: Systemic

##### **DNEL - General population - Long term - Inhalation**

367 mg/m<sup>3</sup>

Effects: Local

##### **DNEL - General population - Long term - Inhalation**

367 mg/m<sup>3</sup>

Effects: Systemic

##### **DNEL - General population - Short term - Inhalation**

734 mg/m<sup>3</sup>

Effects: Local

##### **DNEL - General population - Short term - Inhalation**

734 mg/m<sup>3</sup>

Effects: Systemic

##### **DNEL - Workers - Long term - Inhalation**

734 mg/m<sup>3</sup>

Effects: Local

##### **DNEL - Workers - Long term - Inhalation**

734 mg/m<sup>3</sup>

Effects: Systemic

## SECTION 8: Exposure controls/personal protection

	<p><b>DNEL - Workers - Short term - Inhalation</b> 1468 mg/m<sup>3</sup> <u>Effects:</u> Local</p>
	<p><b>DNEL - Workers - Short term - Inhalation</b> 1468 mg/m<sup>3</sup> <u>Effects:</u> Systemic</p>
2-Butanone, peroxide	<p><b>DNEL - General population - Long term - Oral</b> 0.26 mg/kg bw/day <u>Effects:</u> Systemic</p>
	<p><b>DNEL - General population - Long term - Inhalation</b> 0.44 mg/m<sup>3</sup> <u>Effects:</u> Systemic</p>
	<p><b>DNEL - General population - Long term - Dermal</b> 0.51 mg/kg bw/day <u>Effects:</u> Systemic</p>
	<p><b>DNEL - Workers - Long term - Dermal</b> 1.43 mg/kg bw/day <u>Effects:</u> Systemic</p>
	<p><b>DNEL - Workers - Long term - Inhalation</b> 2.52 mg/m<sup>3</sup> <u>Effects:</u> Systemic</p>
	<p><b>DNEL - Workers - Short term - Inhalation</b> 7.55 mg/m<sup>3</sup> <u>Effects:</u> Systemic</p>

### PNECs

Product/ingredient name	Result
ethyl acetate	<p><b>Fresh water sediment</b> 1.15 mg/kg</p> <p><b>Fresh water</b> 0.24 mg/l</p> <p><b>Marine water sediment</b> 0.115 mg/kg</p> <p><b>Soil</b> 0.148 mg/kg</p> <p><b>Sewage Treatment Plant</b> 650 mg/l</p> <p><b>Marine water</b> 0.024 mg/l</p>

## 8.2 Exposure controls

## SECTION 8: Exposure controls/personal protection

**Appropriate engineering controls** : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

### 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** : Use safety eyewear designed to protect against splash of liquids.

### Skin protection

#### Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

**Gloves** : Duration / breakthrough time: <1 hour,  
Glove material: NBR, nitrile rubber, material thickness as splash protection: at least 0.2 mm, (EN374)  
Glove material: NBR, nitrile rubber Material thickness for short-term contact: at least 0.5 mm, (EN374)

The recommendation for the type or types of glove to use when handling this product is based on information from the following source:

Expert judgment

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

**Body protection** : Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

**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** : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.  
A management program to ensure safe use including proper fitting, training on handling, duration of use, cleaning and replacement of respirators must be in place.  
Recommended:  
EN 140 filter mask with AXP3 or ABEK2P3 filter according to EN 14387 or pressurized air respirator according to EN 14594.  
Depending on the risk assessment of the workplace, other respirator types might be selected.

**Environmental exposure controls** : Do not allow to enter drains or watercourses.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	: Liquid.
<b>Colour</b>	: Clear.
<b>Odour</b>	: Not available.
<b>Odour threshold</b>	: Not available.
<b>Melting point/freezing point</b>	: Technically not possible to measure
<b>Boiling point or initial boiling point and boiling range</b>	: 70 to 78°C
<b>Flammability</b>	: Not available.
<b>Lower and upper explosion limit</b>	: Lower: 2.1% Upper: 11.4%
<b>Lower and upper explosive (flammable) limits</b>	: Not available.
<b>Flash point</b>	: Closed cup: 6°C
<b>Auto-ignition temperature</b>	: 427°C
<b>Decomposition temperature</b>	: Not applicable.
<b>pH</b>	: Not applicable.
Justification	: Product is non-soluble (in water).
<b>Viscosity</b>	: Dynamic (room temperature): 68 mPa·s Kinematic (room temperature): 69 mm <sup>2</sup> /s Kinematic (40°C): Not available.

#### **Solubility**

:

Media	Result
cold water	Partially soluble

<b>Vapour pressure</b>	6.8 kPa (51.18 mm Hg)
<b>Density</b>	: 0.99 g/cm <sup>3</sup>
<b>Weight volatiles</b>	: 62.8 % (w/w)
<b>VOC content</b>	: 62.8 % (w/w) (2010/75/EU)

### 9.2 Other information

#### 9.2.1 Information with regard to physical hazard classes

**Flow time (ISO 2431)** : 53 s (room temperature) [Jet diameter: 4 mm]

Further information Not available.

#### 9.2.2 Other safety characteristics

**Miscible with water** : No.

Further information Not available.

**room temperature (=20°C)**

## 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** : Stable under recommended storage and handling conditions (see Section 7).
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.
- 10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
- 10.6 Hazardous decomposition products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

### Acute toxicity

Product/ingredient name	Result
ethyl acetate	<b>Rat - Oral - LD50</b> 5620 mg/kg
-	<b>Rabbit - Dermal - LD50</b> 20001 mg/kg
-	<b>Rat - Inhalation - LC50 Vapour</b> 22.6 mg/l [4 hours]
Methyl Ethyl Ketone Peroxide, <= 45%	<b>Rabbit - Dermal - LD50</b> 4000 mg/kg
-	<b>Rat - Oral - LD50</b>

## SECTION 11: Toxicological information

1017 mg/kg  
OECD 401

- **Rat - Inhalation - LC50 Dusts and mists**  
1.5 g/m<sup>3</sup> [4 hours]

**Conclusion/Summary [Product]** : Not available.

### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
mixture	7646.6	N/A	N/A	N/A	11.3
ethyl acetate	5620	20001	N/A	22.6	N/A
Methyl Ethyl Ketone Peroxide, <= 45%	1017	4000	N/A	N/A	1.5

### Skin corrosion/irritation

Not available.

**Conclusion/Summary [Product]** : Not available.

### Serious eye damage/eye irritation

Not available.

**Conclusion/Summary [Product]** : Not available.

### Respiratory corrosion/irritation

Not available.

**Conclusion/Summary [Product]** : Not available.

### Respiratory or skin sensitization

Not available.

### **Skin**

**Conclusion/Summary [Product]** : Not available.

### **Respiratory**

**Conclusion/Summary [Product]** : Not available.

### Germ cell mutagenicity

Not available.

**Conclusion/Summary [Product]** : Not available.

### Carcinogenicity

## SECTION 11: Toxicological information

Not available.

**Conclusion/Summary [Product]** : Not available.

### **Reproductive toxicity**

Not available.

**Conclusion/Summary [Product]** : Not available.

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

#### **Product/ingredient name**

ethyl acetate

#### **Result**

STOT SE 3, H336 (Narcotic effects)

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

Not available.

### **Aspiration hazard**

Not available.

### **Information on likely routes of exposure**

Not available.

### **Potential acute health effects**

- Eye contact** : Causes serious eye damage.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : Causes severe burns.
- Ingestion** : Can cause central nervous system (CNS) depression.

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

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

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

#### **Short term exposure**

**Potential immediate effects** : Not available.

## SECTION 11: Toxicological information

**Potential delayed effects** : Not available.

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**Conclusion/Summary [Product]** : Not available.

**General** : No known significant effects or critical hazards.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : No known significant effects or critical hazards.

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

Not available.

**Conclusion/Summary [Product]** : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

### 11.2.2 Other information

Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

There are no data available on the mixture itself.  
Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as hazardous to the environment.

#### **Product/ingredient name**

ethyl acetate

#### **Result**

##### **Acute - LC50 - Fresh water**

Daphnia - Water flea - *Daphnia cucullata*

Age: 11 days

154 mg/l [48 hours]

Effect: Mortality

-

##### **Acute - LC50 - Fresh water**

Fish - Indian catfish - *Heteropneustes fossilis*

Size: 14.16 cm; Weight: 25.54 g

212.5 mg/l [96 hours]

Effect: Mortality

-

##### **Acute - EC50 - Fresh water**

Algae - Green algae - *Selenastrum sp.*

2500 mg/l [96 hours]

Effect: Population

-

##### **Chronic - NOEC - Fresh water**

Fish - Fathead minnow - *Pimephales promelas* - Embryo

Age: <24 hours

75.6 mg/l [32 days]

## SECTION 12: Ecological information

Effect: Mortality

-	<p><b>Chronic - NOEC - Fresh water</b>  Daphnia - Water flea - <i>Daphnia magna</i>  <u>Age</u>: ≤24 hours  2.4 mg/l [21 days]  <u>Effect</u>: Mortality</p>
Methyl Ethyl Ketone Peroxide, ≤ 45%	<p><b>LC50</b>  Fish  44.2 mg/l [96 hours]</p>

**Conclusion/Summary [Product]** : Not available.

### 12.2 Persistence and degradability

Not available.

**Conclusion/Summary [Product]** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Methyl Ethyl Ketone Peroxide, ≤ 45%	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
ethyl acetate	0.68	30	Low
Methyl Ethyl Ketone Peroxide, ≤ 45%	<0.3	-	Low

### 12.4 Mobility in soil

**Soil/water partition coefficient**

Product/ingredient name	logK <sub>oc</sub>	K <sub>oc</sub>
ethyl acetate	1.3	18.1744
Methyl Ethyl Ketone Peroxide, ≤ 45%	2.3	213.717

**Results of PMT and vPvM assessment**

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
ethyl acetate	No	N/A	Yes	No	N/A	N/A	Yes
Methyl Ethyl Ketone Peroxide, ≤ 45%	No	N/A	Yes	No	No	N/A	No

**Mobility** : Not available.

**Conclusion/Summary** : The product does not meet the criteria to be considered as a PMT or vPvM.

### 12.5 Results of PBT and vPvB assessment

**Regulation (EC) No. 1907/2006 [REACH]**

## SECTION 12: Ecological information

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
ethyl acetate	No	N/A	No	No	No	N/A	No
Methyl Ethyl Ketone	No	N/A	N/A	No	N/A	N/A	N/A
Peroxide, <= 45%							

### Regulation (EC) No. 1272/2008 [CLP]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
ethyl acetate	No	N/A	No	No	No	N/A	No
2-Butanone, peroxide	No	N/A	N/A	No	N/A	N/A	N/A

**Conclusion/Summary** : The product does not meet the criteria to be considered as a PBT or vPvB.

**Regulation (EC) No. 1272/2008 [CLP]**

### 12.6 Endocrine disrupting properties

Not available.

**Conclusion/Summary [Product]** : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 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.

**Disposal considerations** : Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

#### 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.





**Disposal considerations** : Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.

## SECTION 13: Disposal considerations

Type of packaging	European waste catalogue (EWC)
CEPE Guidelines	15 01 10* packaging containing residues of or contaminated by hazardous substances

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

## SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
<b>14.1 UN number or ID number</b>	UN3469	UN3469	UN3469	UN3469
<b>14.2 UN proper shipping name</b>	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE
<b>14.3 Transport hazard class(es)</b>	3 (8) 	3 (8) 	3 (8) 	3 (8) 
<b>14.4 Packing group</b>	II	II	II	II
<b>14.5 Environmental hazards</b>	No.	Yes.	No.	No.

### Additional information

**ADR/RID** : **Tunnel code** (D/E)

**ADN** : The product is only regulated as an environmentally hazardous substance when transported in tank vessels.

**Marine pollutant** : Not available.

**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 Maritime transport in bulk according to IMO instruments** : Not applicable.

## SECTION 14: Transport information

The actual shipping description for this product may vary based several factors including, but not limited to, the volume of material, size of the container, mode of transport and use of exemptions or exceptions found in the applicable regulations. The information provided in Section 14 is one possible shipping description for this product. Consult your shipping specialist or supplier for appropriate assignment information.

## 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

Product/ingredient name	%	Designation [Usage]
mixture	≥90	3

**Labelling** : Not applicable.

#### Other EU regulations

**Explosive precursors** : Not applicable.

#### Seveso Directive

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

#### National regulations

**Industrial use** : The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

**Flammable liquid class (SRVFS 2005:10)** : 1

**15.2 Chemical safety assessment** : No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

**CEPE code** : 1

🔵 Indicates information that has changed from previously issued version.

**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  
 B = Bioaccumulative  
 BCF = Bioconcentration Factor  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

## SECTION 16: Other information

DMEL = Derived Minimal Effect Level  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 IATA = International Air Transport Association  
 IMDG = International Maritime Dangerous Goods  
 IMO = International Maritime Organization  
 M = Mobile  
 N/A = Not available  
 P = Persistent  
 PBT = Persistent, Bioaccumulative and Toxic  
 PMT = Persistent, Mobile and Toxic  
 PNEC = Predicted No Effect Concentration  
 RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
 RRN = REACH Registration Number  
 SGG = Segregation Group  
 T = Toxic  
 vB = Very Bioaccumulative  
 vM = Very Mobile  
 vP = Very Persistent  
 vPvB = Very Persistent and Very Bioaccumulative  
 vPvM = Very Persistent and Very Mobile

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

Classification	Justification
Flam. Liq. 2, H225 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H336	On basis of test data Calculation method Calculation method Calculation method

### Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H242	Heating may cause a fire.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

### Full text of classifications [CLP/GHS]

Acute Tox. 4 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Org. Perox. D Skin Corr. 1B STOT SE 3	ACUTE TOXICITY - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 ORGANIC PEROXIDES - Type D SKIN CORROSION/IRRITATION - Category 1B SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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## **SECTION 16: Other information**

### **Notice to reader**

**This product is intended for industrial use only.**

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