



## SAFETY DATA SHEET

### Acrylamide

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

##### 1.1. Product identifier

Product name	Acrylamide
Product number	35672700
Synonyms; trade names	prop-2-enamide
CAS number	79-06-1
EU index number	616-003-00-0
EC number	201-173-7

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

Identified uses	For research purposes only.
Uses advised against	No specific uses advised against are identified.

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

Supplier	Molekula Ltd. Lingfield Way, Darlington, DL1 4XX, United Kingdom +44 (0) 3302000333 info@molekula.com
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##### 1.4. Emergency telephone number

+44 (0) 1380 725952

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Acute Tox. 3 - H301 Acute Tox. 4 - H312 Acute Tox. 3 - H331 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Muta. 1B - H340 Carc. 1B - H350 Repr. 2 - H361 STOT RE 1 - H372
Environmental hazards	Not Classified

##### 2.2. Label elements

EC number	201-173-7
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## Acrylamide

### Hazard pictograms



### Signal word

Danger

### Hazard statements

H301+H331 Toxic if swallowed or if inhaled.  
 H312 Harmful in contact with skin.  
 H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.  
 H340 May cause genetic defects.  
 H350 May cause cancer.  
 H361 Suspected of damaging fertility or the unborn child.  
 H372 Causes damage to organs through prolonged or repeated exposure.

### Precautionary statements

P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P260 Do not breathe dust.  
 P261 Avoid breathing dust.  
 P264 Wash contaminated skin thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P313 IF exposed or concerned: Get medical advice/ attention.  
 P311 Call a POISON CENTER/ doctor.  
 P312 Call a POISON CENTRE/doctor if you feel unwell.  
 P314 Get medical advice/ attention if you feel unwell.  
 P330 Rinse mouth.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P337+P313 If eye irritation persists: Get medical advice/ attention.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.  
 P501 Dispose of contents/ container in accordance with national regulations.

### 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Product name	Acrylamide
EU index number	616-003-00-0
CAS number	79-06-1
EC number	201-173-7
Chemical formula	CH <sub>2</sub> =CHCONH <sub>2</sub>

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

## Acrylamide

<b>General information</b>	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention. Place unconscious person on their side in the recovery position and ensure breathing can take place.
<b>Ingestion</b>	Get medical attention immediately. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Keep affected person under observation.
<b>Skin contact</b>	It is important to remove the substance from the skin immediately. Remove contamination with soap and water or recognised skin cleansing agent. Get medical attention.
<b>Eye contact</b>	Rinse with water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Get medical attention if any discomfort continues.
<b>Protection of first aiders</b>	It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	A single exposure may cause the following adverse effects: Drowsiness, dizziness, disorientation, vertigo. Unconsciousness. High concentrations may be fatal. Prolonged or repeated exposure may cause the following adverse effects: May cause cancer.
<b>Ingestion</b>	May cause sensitisation or allergic reactions in sensitive individuals. May cause stomach pain or vomiting. May cause severe internal injury. Prolonged or repeated exposure may cause the following adverse effects: May cause cancer.
<b>Skin contact</b>	May cause skin sensitisation or allergic reactions in sensitive individuals. May cause discomfort. Prolonged or repeated exposure may cause the following adverse effects: May cause cancer.
<b>Eye contact</b>	Irritating to eyes.

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

<b>Notes for the doctor</b>	Treat symptomatically. Keep affected person under observation. May cause sensitisation or allergic reactions in sensitive individuals.
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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

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

<b>Specific hazards</b>	This product is toxic.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Very toxic or corrosive gases or vapours. Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO). Oxides of nitrogen.

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### 5.3. Advice for firefighters

#### **Protective actions during firefighting**

Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

#### **Special protective equipment for firefighters**

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

#### **Personal precautions**

Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Avoid inhalation of dust. Use suitable respiratory protection if ventilation is inadequate. Avoid contact with skin and eyes.

### 6.2. Environmental precautions

#### **Environmental precautions**

Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

### 6.3. Methods and material for containment and cleaning up

#### **Methods for cleaning up**

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Provide adequate ventilation. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

### 6.4. Reference to other sections

#### **Reference to other sections**

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### **Usage precautions**

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. This product is toxic. Immediate first aid is imperative. May cause cancer. May cause genetic defects. Suspected of damaging fertility. Suspected of damaging the unborn child. Pregnant or breastfeeding women should not work with this product if there is any risk of exposure. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

#### **Advice on general occupational hygiene**

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

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

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**Storage precautions** Store away from incompatible materials (see Section 10). Store locked up. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

Light sensitive

Handle and store under inert gas

**Storage class** Toxic storage.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

Long-term exposure limit (8-hour TWA): WEL 0.1 mg/m<sup>3</sup>

Carc

Sk

WEL = Workplace Exposure Limit.

Carc = Capable of causing cancer and/or heritable genetic damage.

Sk = Can be absorbed through the skin.

### STEL

**TWA** 0.1 mg/m<sup>3</sup> UK. EH40 WEL- Workplace exposure limit

### 8.2. Exposure controls

#### Protective equipment



#### **Appropriate engineering controls**

Provide adequate general and local exhaust ventilation. Ensure the ventilation system is regularly maintained and tested. Good general ventilation should be adequate to control worker exposure to airborne contaminants. Observe any occupational exposure limits for the product or ingredients.

#### **Eye/face protection**

Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

#### **Hand protection**

Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

#### **Other skin and body protection**

Wear appropriate clothing to prevent any possibility of skin contact.

#### **Hygiene measures**

Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

#### **Respiratory protection**

Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

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<b>Environmental exposure controls</b>	Keep container tightly sealed when not in use. 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.
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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Crystals.
<b>Colour</b>	White.
<b>Odour</b>	Odourless.
<b>Odour threshold</b>	No information available.
<b>pH</b>	pH (diluted solution): 5.2-6 500 g/l
<b>Melting point</b>	82-86°C/179.6-186.8°F
<b>Initial boiling point and range</b>	125°C/257°F @ 33 hPa
<b>Flash point</b>	138°C/280.4°F Closed cup.
<b>Evaporation rate</b>	No information available.
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Vapour pressure</b>	2.1 hPa @ 84.50°C/184.1°F 0.04 hPa @ 40°C/104°F
<b>Vapour density</b>	2.45 ( Air = 1.0)
<b>Relative density</b>	1.12 g/cm <sup>3</sup> @ 30°C/86°F
<b>Solubility(ies)</b>	Soluble in the following materials: Water. DMSO
<b>Partition coefficient</b>	log Pow: -0.9 at 20°C/68°F ( Bioaccumulation is not expected)
<b>Auto-ignition temperature</b>	No information available.
<b>Decomposition Temperature</b>	No information available.

#### 9.2. Other information

<b>Molecular weight</b>	71.08
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

<b>Reactivity</b>	See the other subsections of this section for further details.
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#### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
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#### 10.3. Possibility of hazardous reactions

## Acrylamide

<b>Possibility of hazardous reactions</b>	Violent reactions possible with: Alkalis. Oxidising agents. Reducing agents. Some metals. Peroxides. Acids.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid heat.
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### 10.5. Incompatible materials

<b>Materials to avoid</b>	Oxidising agents. Iron. Copper. Free radical initiators.
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### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO). Oxides of nitrogen.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

<b>Summary</b>	Toxic if swallowed.
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<b>ATE oral (mg/kg)</b>	100.0
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#### Acute toxicity - dermal

<b>Summary</b>	Harmful in contact with skin.
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<b>ATE dermal (mg/kg)</b>	1,100.0
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#### Acute toxicity - inhalation

<b>Summary</b>	Toxic if inhaled.
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<b>Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l)</b>	1.6
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<b>ATE inhalation (dusts/mists mg/l)</b>	0.5
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#### Skin corrosion/irritation

<b>Summary</b>	Based on available data the classification criteria are not met.
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#### Serious eye damage/irritation

<b>Summary</b>	Causes serious eye irritation.
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#### Respiratory sensitisation

<b>Summary</b>	Based on available data the classification criteria are not met.
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#### Skin sensitisation

<b>Summary</b>	May cause an allergic skin reaction.
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#### Germ cell mutagenicity

<b>Summary</b>	May cause genetic defects.
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#### Carcinogenicity

<b>Summary</b>	May cause cancer.
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<b>IARC carcinogenicity</b>	IARC Group 2A Probably carcinogenic to humans.
<b><u>Reproductive toxicity</u></b>	
<b>Summary</b>	Suspected of damaging the unborn child. Suspected of damaging fertility.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>Summary</b>	Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>Summary</b>	Causes damage to organs through prolonged or repeated exposure.
<b><u>Aspiration hazard</u></b>	
<b>Summary</b>	Not relevant. Solid.
<b>General information</b>	Avoid contact during pregnancy/while nursing. May damage fertility. May cause cancer after repeated exposure. Risk of cancer depends on duration and level of exposure. May cause genetic defects. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	A single exposure may cause the following adverse effects: Drowsiness, dizziness, disorientation, vertigo. Unconsciousness. High concentrations may be fatal.
<b>Ingestion</b>	May cause sensitisation or allergic reactions in sensitive individuals. May cause stomach pain or vomiting. May cause severe internal injury.
<b>Skin contact</b>	May cause skin sensitisation or allergic reactions in sensitive individuals. May cause discomfort.
<b>Eye contact</b>	Irritating to eyes.
<b>Route of exposure</b>	Ingestion Inhalation Skin and/or eye contact
<b>Target organs</b>	No specific target organs known.
<b>Medical considerations</b>	Skin disorders and allergies.

### SECTION 12: Ecological information

<b>Ecotoxicity</b>	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
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#### 12.1. Toxicity

##### Acute aquatic toxicity

<b>Summary</b>	Based on available data the classification criteria are not met.
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##### Chronic aquatic toxicity

<b>Summary</b>	Based on available data the classification criteria are not met.
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#### 12.2. Persistence and degradability

<b>Persistence and degradability</b>	The degradability of the product is not known.
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#### 12.3. Bioaccumulative potential

<b>Bioaccumulative potential</b>	No data available on bioaccumulation.
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<b>Partition coefficient</b>	log Pow: -0.9 at 20°C/68°F ( Bioaccumulation is not expected)
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#### 12.4. Mobility in soil

<b>Mobility</b>	No data available.
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## Acrylamide

### 12.5. Results of PBT and vPvB assessment

### 12.6. Other adverse effects

Other adverse effects                      None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>General information</b>	The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
<b>Disposal methods</b>	Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

## SECTION 14: Transport information

**General**                                      For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

### 14.1. UN number

UN No. (ADR/RID)	2074
UN No. (IMDG)	2074
UN No. (ICAO)	2074
UN No. (ADN)	2074

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	ACRYLAMIDE, SOLID
Proper shipping name (IMDG)	ACRYLAMIDE, SOLID
Proper shipping name (ICAO)	ACRYLAMIDE, SOLID
Proper shipping name (ADN)	ACRYLAMIDE, SOLID

### 14.3. Transport hazard class(es)

ADR/RID class	6.1
ADR/RID classification code	T2
ADR/RID label	6.1
IMDG class	6.1
ICAO class/division	6.1
ADN class	6.1

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## Transport labels



### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

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.

EmS	F-A, S-A
ADR transport category	2
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	60
Tunnel restriction code	(E)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78  
and the IBC Code

## SECTION 15: Regulatory information

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

National regulations	Health and Safety at Work etc. Act 1974 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.
EU legislation	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) (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015. 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 (as amended).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## Inventories

## Acrylamide

### EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

### US - TSCA

Present.

### SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>IATA: International Air Transport Association.</p> <p>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>CAS: Chemical Abstracts Service.</p> <p>ATE: Acute Toxicity Estimate.</p> <p>LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.</p> <p>LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>EC<sub>50</sub>: 50% of maximal Effective Concentration.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p>
<b>Classification abbreviations and acronyms</b>	<p>Acute Tox. = Acute toxicity</p> <p>Carc. = Carcinogenicity</p> <p>Eye Irrit. = Eye irritation</p> <p>Muta. = Germ cell mutagenicity</p> <p>Repr. = Reproductive toxicity</p> <p>Skin Sens. = Skin sensitisation</p> <p>STOT RE = Specific target organ toxicity-repeated exposure</p>
<b>Classification procedures according to Regulation (EC) 1272/2008</b>	<p>Acute Tox. 3 - H331: Acute Tox. 3 - H301: Acute Tox. 4 - H312: STOT RE 1 - H372: Eye Irrit. 2 - H319: Skin Sens. 1 - H317: Muta. 1B - H340: Carc. 1B - H350: Repr. 2 - H361: : Expert judgement.</p>
<b>Training advice</b>	<p>Only trained personnel should use this material.</p>
<b>Revision date</b>	<p>07/09/2021</p>
<b>Revision</b>	<p>1</p>
<b>SDS number</b>	<p>310</p>
<b>Hazard statements in full</b>	<p>H301 Toxic if swallowed.</p> <p>H312 Harmful in contact with skin.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H319 Causes serious eye irritation.</p> <p>H331 Toxic if inhaled.</p> <p>H340 May cause genetic defects.</p> <p>H350 May cause cancer.</p> <p>H361 Suspected of damaging fertility or the unborn child.</p> <p>H372 Causes damage to organs through prolonged or repeated exposure.</p>

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.