

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Name : Liquid polyester mass  
Trade name : LC

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Use of the substance/mixture : The product is intended for professional use  
Repair and maintenance of ships and boats

**1.2.2. Uses advised against**

No additional information available

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

NOVOL Sp. z o.o.  
Żabikowska 7/9  
62-052 KOMORNIKI  
Poland  
T 0048618109800 - F 0048618109809  
[www.novol.com](http://www.novol.com)  
E-mail address of competent person responsible for the SDS : [dokumentacja@novol.com](mailto:dokumentacja@novol.com)

**1.4. Emergency telephone number**

Emergency number : 112

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Flammable liquids, Category 3	H226
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Respiratory sensitisation, Category 1	H334
Skin sensitisation, Category 1	H317
Reproductive toxicity, Category 2	H361d
Specific target organ toxicity – Repeated exposure, Category 1	H372

Full text of H- and EUH-statements: see section 16

**Adverse physicochemical, human health and environmental effects**

No additional information available

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS02

GHS08

Signal word (CLP) : Danger  
Contains : styrene, phthalic anhydride  
Hazard statements (CLP) : H226 - Flammable liquid and vapour.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.

Precautionary statements (CLP)	<p>H319 - Causes serious eye irritation.                      H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.                      H361d - Suspected of damaging the unborn child.                      H372 - Causes damage to organs (hearing organs) through prolonged or repeated exposure.</p> <p>: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                      P260 - Do not breathe vapours.                      P271 - Use only outdoors or in a well-ventilated area.                      P280 - Wear protective gloves, protective clothing, eye protection, face protection.                      P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.                      P312 - Call doctor if you feel unwell.</p>
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### 2.3. Other hazards

Other hazards which do not result in classification : Vapour could form explosive mixture with air. Vapours are heavier than air and spread above ground. Hazardous polymerization may occur if exposed to high temperature.

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
styrene substance with national workplace exposure limit(s) (GB) (Note D)	CAS-No.: 100-42-5 EC-No.: 202-851-5 EC Index-No.: 601-026-00-0 REACH-no: 01-2119457861-32	40 – 50	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d STOT RE 1, H372
2-phenylpropene; $\alpha$ -methylstyrene substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 98-83-9 EC-No.: 202-705-0 EC Index-No.: 601-027-00-6	< 2	Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
phthalic anhydride substance with national workplace exposure limit(s) (GB)	CAS-No.: 85-44-9 EC-No.: 201-607-5 EC Index-No.: 607-009-00-4	$\leq 1$	Acute Tox. 4 (Oral), H302 STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317

### Specific concentration limits:

Name	Product identifier	Specific concentration limits
2-phenylpropene; $\alpha$ -methylstyrene	CAS-No.: 98-83-9 EC-No.: 202-705-0 EC Index-No.: 601-027-00-6	( 25 $\leq$ C $\leq$ 100) STOT SE 3, H335

Note D : Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: General information. Refer to section 11.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. If skin irritation continues, consult a doctor.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
First-aid measures after ingestion	: If swallowed: rinse mouth. Do NOT induce vomiting. Call a physician immediately.

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

Symptoms/effects after inhalation	: Vapours may cause drowsiness and dizziness.
Symptoms/effects after skin contact	: Prolonged or repeated contact may cause skin to become dry.
Symptoms/effects after eye contact	: May cause eye irritation.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Dry chemical, CO <sub>2</sub> , alcohol-resistant foam or waterspray.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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

Hazardous decomposition products in case of fire	: Carbon monoxide. Other toxic gases.
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### 5.3. Advice for firefighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Protective equipment	: Remove ignition sources. Ensure that there is a suitable ventilation system. Avoid any direct or indirect contact with ingredients released. Avoid contact with skin and eyes. Use personal protective equipment as required. See Section 8.
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#### 6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. See Section 8.
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### 6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter into surface water or drains. Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

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

For containment : Cover spill with non combustible material, e.g.: sand, earth, vermiculite. Mechanically recover the product.

### 6.4. Reference to other sections

Disposal considerations. See Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

styrene (100-42-5)	
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Styrene
WEL TWA (OEL TWA) [1]	430 mg/m <sup>3</sup>
WEL TWA (OEL TWA) [2]	100 ppm
WEL STEL (OEL STEL)	1080 mg/m <sup>3</sup>
WEL STEL (OEL STEL) [ppm]	250 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
2-phenylpropene; α-methylstyrene (98-83-9)	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	2-Phenylpropene
IOEL TWA	246 mg/m <sup>3</sup>
IOEL TWA [ppm]	50 ppm
IOEL STEL	492 mg/m <sup>3</sup>
IOEL STEL [ppm]	100 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	2-Phenylpropene

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<b>2-phenylpropene; <math>\alpha</math>-methylstyrene (98-83-9)</b>	
WEL TWA (OEL TWA) [1]	246 mg/m <sup>3</sup>
WEL TWA (OEL TWA) [2]	50 ppm
WEL STEL (OEL STEL)	491 mg/m <sup>3</sup>
WEL STEL (OEL STEL) [ppm]	100 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

<b>phthalic anhydride (85-44-9)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Phthalic anhydride
Remark	Respiratory sensitizer; skin sensitizer. (Year of adoption 2010)
Regulatory reference	SCOEL Recommendations
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Phthalic anhydride
WEL TWA (OEL TWA) [1]	4 mg/m <sup>3</sup>
WEL STEL (OEL STEL)	12 mg/m <sup>3</sup>
Remark	Sen (Capable of causing occupational asthma)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

**8.1.2. Recommended monitoring procedures**

<b>Monitoring methods</b>	
Monitoring methods	EN 482. Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents.

**8.1.3. Air contaminants formed**

No additional information available

**8.1.4. DNEL and PNEC**

<b>styrene (100-42-5)</b>	
<b>DNEL/DMEL (Workers)</b>	
Acute - systemic effects, inhalation	100 mg/m <sup>3</sup>
Acute - local effects, inhalation	100 mg/m <sup>3</sup>
Long-term - systemic effects, inhalation	100 mg/m <sup>3</sup>
Long-term - local effects, inhalation	100 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Acute - systemic effects, inhalation	10 mg/m <sup>3</sup>
Acute - local effects, inhalation	10 mg/m <sup>3</sup>
Long-term - systemic effects, oral	7.7 $\mu$ g/kg bodyweight/day
Long-term - systemic effects, inhalation	1 mg/m <sup>3</sup>
Long-term - local effects, inhalation	1 mg/m <sup>3</sup>
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0.04 mg/l
PNEC aqua (marine water)	0.04 mg/l

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styrene (100-42-5)	
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	0.418 mg/kg dwt
PNEC sediment (marine water)	0.418 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	0.146 mg/kg dwt

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Protective gloves

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Viton® II	6 (> 480 minutes)	0,7 mm		EN 374-3
Disposable gloves	Nitrile rubber (NBR)	2 (> 30 minutes)	0,4 mm		EN 374-3

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Respiratory protection			
Device	Filter type	Condition	Standard
Gas mask with filter type	Filter A1/B1		EN 14387

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state	: Liquid
Colour	: Grey.
Odour	: characteristic. Sweet.
Odour threshold	: 0.43 mg/m <sup>3</sup> styrene
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: 146 °C
Flammability	: Not applicable
Explosive properties	: No data available.
Explosive limits	: Not available
Lower explosion limit	: 1.1 vol % styrene
Upper explosion limit	: 8 vol % styrene
Flash point	: 30 °C
Auto-ignition temperature	: 490 °C
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Non-Newtonian liquid	: (Read the technical data sheet)
Solubility	: Slightly soluble.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 7.3 hPa styrene
Vapour pressure at 50°C	: Not available
Density	: 1.3 – 1.4 g/cm <sup>3</sup>
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Relative density of saturated gas/air mixture	: 3.6 styrene
Particle characteristics	: Not applicable

**9.2. Other information****9.2.1. Information with regard to physical hazard classes**

No additional information available

**9.2.2. Other safety characteristics**

No additional information available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

The product is non-reactive under normal conditions of use, storage and transport.

**10.2. Chemical stability**

Stable under normal conditions of use.

**10.3. Possibility of hazardous reactions**

Can react violently with alkalis, as well as a lot of organic products such as alcohols and amines. Hazardous polymerization may occur if exposed to high temperature.

**10.4. Conditions to avoid**

Keep away from sources of ignition. Prevent build-up of electrostatic charges (e.g. by grounding). Protect from sunlight. Avoid high temperatures.

**10.5. Incompatible materials**

No contact with: strong acids, strong bases and strong oxidants.

**10.6. Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition may produce : Carbon monoxide. Other toxic gases.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)  
 Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)  
 Acute toxicity (inhalation) : Not classified. (Based on available data, the classification criteria are not met)

<b>styrene (100-42-5)</b>	
LD50 oral rat	5000 mg/kg Source: ECHA
LD50 dermal rat	> 2000 mg/kg Source: ECHA
LC50 Inhalation - Rat (Vapours)	11.8 mg/l Source: ECHA

<b>2-phenylpropene; <math>\alpha</math>-methylstyrene (98-83-9)</b>	
LD50 oral rat	≈ 4900 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: other:
LD50 dermal rabbit	≈ 14560 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: other:

<b>phthalic anhydride (85-44-9)</b>	
LD50 oral rat	1530 mg/kg Source: ECHA
LD50 dermal rabbit	> 3160 mg/kg Source: HSDB
LC50 Inhalation - Rat (Dust/Mist)	> 2.14 mg/l Source: ECHA

Skin corrosion/irritation : Causes skin irritation.

<b>2-phenylpropene; <math>\alpha</math>-methylstyrene (98-83-9)</b>	
pH	5 – 6 Source: ECHA

Serious eye damage/irritation : Causes serious eye irritation.

<b>2-phenylpropene; <math>\alpha</math>-methylstyrene (98-83-9)</b>	
pH	5 – 6 Source: ECHA

Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

<b>styrene (100-42-5)</b>	
IARC group	2B - Possibly carcinogenic to humans

<b>2-phenylpropene; <math>\alpha</math>-methylstyrene (98-83-9)</b>	
IARC group	2B - Possibly carcinogenic to humans

Reproductive toxicity : Suspected of damaging the unborn child.

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

<b>2-phenylpropene; <math>\alpha</math>-methylstyrene (98-83-9)</b>	
STOT-single exposure	May cause respiratory irritation.

<b>phthalic anhydride (85-44-9)</b>	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Causes damage to organs (hearing organs) through prolonged or repeated exposure.



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<b>styrene (100-42-5)</b>	
STOT-repeated exposure	Causes damage to organs (hearing organs) through prolonged or repeated exposure.

<b>2-phenylpropene; <math>\alpha</math>-methylstyrene (98-83-9)</b>	
LOAEL (oral, rat, 90 days)	200 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEC (inhalation, rat, gas, 90 days)	300 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

<b>2-phenylpropene; <math>\alpha</math>-methylstyrene (98-83-9)</b>	
Viscosity, kinematic	1.033 mm <sup>2</sup> /s

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

Not rapidly degradable

<b>styrene (100-42-5)</b>	
LC50 - Fish [1]	10 mg/l Source: ECHA
EC50 - Crustacea [1]	4.7 mg/l Source: ECHA
EC50 72h - Algae [1]	4.9 mg/l Source: ECHA

<b>2-phenylpropene; <math>\alpha</math>-methylstyrene (98-83-9)</b>	
LC50 - Fish [1]	2.97 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	1645 mg/l Test organisms (species): Daphnia magna
ErC50 algae	11.441 mg/l Source: ECHA
NOEC (chronic)	0.401 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

<b>phthalic anhydride (85-44-9)</b>	
LC50 - Fish [1]	> 99 mg/l Source: ECHA
EC50 72h - Algae [1]	68 mg/l Source: ECHA

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

<b>styrene (100-42-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.95 Source: HSDB, ChemIDplus

<b>2-phenylpropene; <math>\alpha</math>-methylstyrene (98-83-9)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.48 Source: ECHA

<b>phthalic anhydride (85-44-9)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.6 Source: HSDB

**12.4. Mobility in soil**

No additional information available

**12.5. Results of PBT and vPvB assessment**

No additional information available

**12.6. Endocrine disrupting properties**

No additional information available

**12.7. Other adverse effects**




No additional information available

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Do not discharge into drains.
Product/Packaging disposal recommendations	: This material and its container must be disposed of as hazardous waste. Do not dispose of with domestic waste. After cleaning, recycle or dispose of at an authorised site.
Additional information	: Flammable vapours may accumulate in the container.
European List of Waste (LoW) code	: 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances 15 01 10* - packaging containing residues of or contaminated by dangerous substances

**SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
<b>14.1. UN number or ID number</b>		
UN 1866	UN 1866	UN 1866
<b>14.2. UN proper shipping name</b>		
RESIN SOLUTION	RESIN SOLUTION	Resin solution
<b>Transport document description</b>		
UN 1866 RESIN SOLUTION, 3, III, (D/E)	UN 1866 RESIN SOLUTION, 3, III (30°C c.c.)	UN 1866 Resin solution, 3, III
<b>14.3. Transport hazard class(es)</b>		
3	3	3
		
<b>14.4. Packing group</b>		
III	III	III

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ADR	IMDG	IATA
<b>14.5. Environmental hazards</b>		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available		

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : F1  
Limited quantities (ADR) : 5I  
Special packing provisions (ADR) : PP1  
Mixed packing provisions (ADR) : MP19  
Transport category (ADR) : 3  
Special provisions for carriage - Packages (ADR) : V12

Tunnel restriction code (ADR) : D/E  
EAC code : •3Y

#### Transport by sea

Special provisions (IMDG) : 223, 955  
Limited quantities (IMDG) : 5 L  
Special packing provisions (IMDG) : PP1  
EmS-No. (Fire) : F-E  
EmS-No. (Spillage) : S-E  
Stowage category (IMDG) : A

#### Air transport

No data available

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

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### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

#### Indication of changes:

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Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant

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Abbreviations and acronyms:	
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Data sources : ECHA (European Chemicals Agency).  
 Training advice : Handle in accordance with good industrial hygiene and safety procedures.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
Repr. 2	Reproductive toxicity, Category 2
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Flam. Liq. 3	H226	On basis of test data
Skin Irrit. 2	H315	Calculation method

# LC

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

<b>Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:</b>		
Eye Irrit. 2	H319	Calculation method
Resp. Sens. 1	H334	Calculation method
Skin Sens. 1	H317	Calculation method
Repr. 2	H361d	Expert judgment
STOT RE 1	H372	Calculation method

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.