

# LOXEAL®

## ENGINEERING ADHESIVES

### SAFETY DATA SHEET

#### Loxeal 18-10

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

##### 1.1. Product identifier

Product name                      Loxeal 18-10

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

Identified uses                      Adhesive. Sealant.

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

Supplier                              Loxeal s.r.l.  
Via Marconato 2  
Cesano Maderno  
20811 (MB)  
Italia  
Tel: +39 0362 529 301  
Fax +39 0362 524 225  
info@loxeal.com

##### 1.4. Emergency telephone number

Emergency telephone              CHEMTREC UK: +(44)-870-8200418 CHEMTREC US: 800-424-9300 (CCN: 829878)

National emergency telephone number      CHEMTREC UK: +(44)-870-8200418  
CHEMTREC US: 800-424-9300  
CHEMTREC Australia: +(61)-290372994  
CHEMTREC New Zealand: +(64)-98010034

#### SECTION 2: Hazards identification

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

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

Physical hazards                      Not Classified

Health hazards                        Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT SE 3 - H335

Environmental hazards              Not Classified

##### 2.2. Label elements

###### Hazard pictograms



Signal word                            Warning

Hazard statements                      H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.

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<b>Precautionary statements</b>	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352a IF ON SKIN: Wash with plenty of soap and water P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Contains</b>	HYDROXYPROPYL METHACRYLATE, DODECYL METHACRYLATE, CUMENE HYDROPEROXIDE
<b>Supplementary precautionary statements</b>	P264 Wash contaminated skin thoroughly after handling. 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. P501 Dispose of contents/container in accordance with existing Community, National and local regulations.

### 2.3. Other hazards

None under normal conditions. This substance is not classified as PBT or vPvB according to current EU criteria.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>HYDROXYPROPYL METHACRYLATE</b> <span style="float: right;"><b>5-10%</b></span> CAS number: 27813-02-1                      EC number: 248-666-3                      REACH registration number: 01-2119490226-37-XXXX
<b>Classification</b> Eye Irrit. 2 - H319 Skin Sens. 1 - H317
<b>DODECYL METHACRYLATE</b> <span style="float: right;"><b>5-10%</b></span> CAS number: 142-90-5                      EC number: 205-570-6                      REACH registration number: 01-2119489778-11-XXXX
<b>Classification</b> STOT SE 3 - H335
<b>CUMENE HYDROPEROXIDE</b> <span style="float: right;"><b>1-2.5%</b></span> CAS number: 80-15-9                      EC number: 201-254-7                      REACH registration number: 01-2119475796-19-XXXX
<b>Classification</b> Org. Perox. E - H242 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335 STOT RE 2 - H373 Aquatic Chronic 2 - H411

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<b>ETHANEDIOL</b>		<b>1-3%</b>
CAS number: 107-21-1	EC number: 203-473-3	REACH registration number: 01-2119456816-28-XXXX
<b>Classification</b>		
Acute Tox. 4 - H302		
STOT RE 2 - H373		

The full text for all hazard statements is displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation</b>	Move the exposed person to fresh air. Get medical attention if symptoms are severe or persist.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Get medical attention.
<b>Skin contact</b>	Wash skin thoroughly with soap and water. If symptoms develop, obtain medical attention
<b>Eye contact</b>	Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

<b>Skin contact</b>	Skin irritation. Mild dermatitis, allergic skin rash.
<b>Eye contact</b>	Irritating and may cause redness and pain.

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

<b>Notes for the doctor</b>	No specific recommendations. Treat symptomatically.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Foam, carbon dioxide or dry powder.
<b>Unsuitable extinguishing media</b>	Water.

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

<b>Hazardous combustion products</b>	Burning produces irritating, toxic and obnoxious fumes. Carbon monoxide, carbon dioxide, and unknown hydrocarbons.
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#### 5.3. Advice for firefighters

<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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### SECTION 6: Accidental release measures

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

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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#### 6.2. Environmental precautions

<b>Environmental precautions</b>	Not considered to be a significant hazard due to the small quantities used. Avoid discharge into drains.
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### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Absorb spillage with sand or other inert absorbent. Transfer to suitable, labelled containers for disposal.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product.

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

**Storage precautions** Store in closed original container at temperatures between 5°C and 25°C. Never return unused material to storage receptacle.

### 7.3. Specific end use(s)

**Specific end use(s)** This product is not recommended for use in joints which will be in contact with either pure oxygen or steam.

**Usage description** Adhesive. Sealant.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### ETHANEDIOL

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> particulate

Sk

Long-term exposure limit (8-hour TWA): WEL 20 ppm 52 mg/m<sup>3</sup> vapour

Short-term exposure limit (15-minute): WEL 40 ppm 104 mg/m<sup>3</sup> vapour

Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

#### HYDROXYPROPYL METHACRYLATE (CAS: 27813-02-1)

**DNEL** Workers - Inhalation; Long term systemic effects: 14.7 mg/m<sup>3</sup>  
Workers - Dermal; Long term systemic effects: 4.2 mg/kg/day

**PNEC** Fresh water; 0.904 mg/l  
marine water; 0.904 mg/l  
STP; 10 mg/l  
Sediment (Freshwater); 6.28 mg/kg  
Sediment (Marinewater); 6.28 mg/kg  
Soil; 0.727 mg/kg

#### CUMENE HYDROPEROXIDE (CAS: 80-15-9)

**DNEL** Workers - Inhalation; Long term systemic effects: 6 mg/m<sup>3</sup>

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<b>PNEC</b>	Workers - Fresh water; 0.0031 mg/l
	Workers - marine water; 0.00031 mg/l
	Workers - Intermittent release; 0.031 mg/l
	Workers, Industry - Soil; 1.2 mg/kg
	Workers - STP; 0.35 mg/l
	Workers - Sediment (Freshwater); 0.023 mg/kg
	Workers - Sediment (Marinewater); 0.0023 mg/kg
	Workers - Soil; 0.0029 mg/kg

### ETHANEDIOL (CAS: 107-21-1)

<b>DNEL</b>	Workers - Inhalation; Long term local effects: 35 mg/m <sup>3</sup>
	Workers - Dermal; Long term systemic effects: 106 mg/kg/day
<b>PNEC</b>	Fresh water; 10 mg/l
	marine water; 1 mg/l
	STP; 199.5 mg/l
	Sediment (Freshwater); 37 mg/kg
	Sediment (Marinewater); 3.7 mg/kg
	Soil; 1.53 mg/kg

## 8.2. Exposure controls

### Protective equipment



### Appropriate engineering controls

Normal (mechanical) room ventilation should be adequate for small volumes. For higher volume activities, or if needed for worker comfort, local mechanical exhaust should be provided.

### Eye/face protection

Use approved safety goggles or face shield. Personal eye protection should conform to EN 166

### Hand protection

It is recommended that chemical-resistant, impervious gloves are worn. Gloves should conform to EN 374. For exposure up to 4 hours, wear gloves made of the following material: Nitrile rubber. Thickness:  $\geq 0.4$  mm The selected gloves should have a breakthrough time of at least 0.5 hours. For exposure up to 8 hours, wear gloves made of the following material: Nitrile rubber. Thickness:  $\geq 0.4$  mm The selected gloves should have a breakthrough time of at least 8 hours. The breakthrough time for any glove material may be different for different glove manufacturers. 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. 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.

### Other skin and body protection

Uniforms, coveralls, or a lab coat should be worn

### Hygiene measures

Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Wash promptly if skin becomes contaminated. Use of good industrial hygiene practices is required.

### Respiratory protection

Ensure adequate ventilation of the working area. Respiratory protection may be required if excessive airborne contamination occurs. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Organic vapour filter. Type A. (EN14387)

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### SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Viscous liquid.
<b>Colour</b>	White.
<b>Odour</b>	Slight pungent.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not relevant.
<b>Melting point</b>	Not available.
<b>Initial boiling point and range</b>	Not applicable.
<b>Flash point</b>	>100°C
<b>Evaporation rate</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	Not applicable.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	1.0
<b>Solubility(ies)</b>	Insoluble in water. Soluble in the following materials: acetone
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	≈45000 mPa s @ 25°C Thixotropic
<b>Oxidising properties</b>	Not available.

#### 9.2. Other information

<b>Other information</b>	Not relevant.
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

<b>Reactivity</b>	The following materials may react with the product: Strong oxidising agents.
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#### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures.
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#### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	There are no known reactivity hazards associated with this product.
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#### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid the absence of air, and metal contamination.
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#### 10.5. Incompatible materials

<b>Materials to avoid</b>	Metals and their salts. Free radical initiators.
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#### 10.6. Hazardous decomposition products

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**Hazardous decomposition products** Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Toxicological effects** The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

#### Aspiration hazard

**Aspiration hazard** None under normal conditions.

**Inhalation** May cause respiratory system irritation.

**Ingestion** No harmful effects expected from quantities likely to be ingested by accident.

**Skin contact** May cause sensitisation by skin contact.

**Eye contact** Irritating to eyes.

#### Toxicological information on ingredients.

#### HYDROXYPROPYL METHACRYLATE

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 2,000.1

**Species** Rat

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 5,000.0

**Species** Rabbit

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** No information available.

##### Skin corrosion/irritation

**Animal data** Not irritating.

##### Serious eye damage/irritation

**Serious eye damage/irritation** Moderately irritating.

##### Respiratory sensitisation

**Respiratory sensitisation** There is no evidence that the material can lead to respiratory hypersensitivity.

##### Skin sensitisation

**Skin sensitisation** Epidemiological studies have shown evidence of skin sensitisation.

##### Germ cell mutagenicity

**Genotoxicity - in vitro** Gene mutation: Negative.

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<b>Genotoxicity - in vivo</b>	Chromosome aberration: Negative.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	No evidence of carcinogenicity in animal studies.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Screening - NOAEL 300 mg/kg/day, Oral, Rat P
<b>Reproductive toxicity - development</b>	Developmental toxicity: - NOAEL: 1000 mg/kg/day, Oral, Rat
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Not classified as a specific target organ toxicant after a single exposure.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Not classified as a specific target organ toxicant after repeated exposure.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	No information available.

### CUMENE HYDROPEROXIDE

<b><u>Acute toxicity - oral</u></b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	328.0
<b>Species</b>	Rat
<b><u>Acute toxicity - dermal</u></b>	
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	1,200.0
<b>Species</b>	Rat
<b><u>Acute toxicity - inhalation</u></b>	
<b>Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l)</b>	1.37
<b>Species</b>	Rat
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	Highly irritating.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Irritating to eyes.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Not sensitising.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Positive.
<b>Genotoxicity - in vivo</b>	This substance has no evidence of mutagenic properties.
<b><u>Carcinogenicity</u></b>	

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<b>Carcinogenicity</b>	CMR: No
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	No specific test data are available.
<b>Reproductive toxicity - development</b>	Developmental toxicity: - NOAEL: $\geq 100$ mg/kg/day, Oral, Rat
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	No specific test data are available.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Toxic: danger of serious damage to health by prolonged exposure through inhalation.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	No specific test data are available.

### ETHANEDIOL

<b><u>Acute toxicity - dermal</u></b>	
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	3,500.0
<b>Species</b>	Mouse
<b><u>Acute toxicity - inhalation</u></b>	
<b>Notes (inhalation LC<sub>50</sub>)</b>	No information available.
<b><u>Skin corrosion/irritation</u></b>	
<b>Skin corrosion/irritation</b>	Based on available data the classification criteria are not met.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Based on available data the classification criteria are not met.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Based on available data the classification criteria are not met.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Gene mutation: Negative.
<b>Genotoxicity - in vivo</b>	Chromosome aberration: Negative.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	No evidence of carcinogenicity in animal studies.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Three-generation study - NOAEL $> 1000$ mg/kg/day, Oral, Rat F1
<b>Reproductive toxicity - development</b>	Developmental toxicity: - NOAEC: 150 mg/m <sup>3</sup> , Inhalation, Rat
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	No information available.

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### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** No information available.

### Aspiration hazard

**Aspiration hazard** No information available.

## SECTION 12: Ecological information

**Ecotoxicity** The product is not expected to be hazardous to the environment.

### 12.1. Toxicity

**Toxicity** The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

### Ecological information on ingredients.

#### HYDROXYPROPYL METHACRYLATE

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 48 hours: 493 mg/l, *Leuciscus idus* (Golden orfe)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 380 mg/l, *Daphnia magna*

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: > 97.2 mg/l, *Pseudokirchneriella subcapitata*  
NOEC, 72 hours: 97.2 mg/l, *Pseudokirchneriella subcapitata*

##### Chronic aquatic toxicity

**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: 24.1 mg/l, *Daphnia magna*

#### CUMENE HYDROPEROXIDE

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hour: 3.9 mg/l, *Oncorhynchus mykiss* (Rainbow trout)

#### ETHANEDIOL

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 72860 mg/l, *Pimephales promelas* (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: > 100 mg/l, *Daphnia magna*

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 96 hours: 6500 - 13000 mg/l, *Selenastrum capricornutum*

**Acute toxicity - microorganisms** EC<sub>20</sub>, 0.5 hour: 1.995 mg/l, Activated sludge

##### Chronic aquatic toxicity

**Chronic toxicity - fish early life stage** NOEC, 7 days: 15380 mg/l, *Pimephales promelas* (Fat-head Minnow)

**Chronic toxicity - aquatic invertebrates** NOEC, 7 days: 8590 mg/l, *Daphnia magna*

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### 12.2. Persistence and degradability

**Persistence and degradability** No data available.

### Ecological information on ingredients.

#### HYDROXYPROPYL METHACRYLATE

**Biodegradation** Water - Degradation 94.2%: 28 days

#### CUMENE HYDROPEROXIDE

**Biodegradation** The substance is readily biodegradable.

#### ETHANEDIOL

**Biodegradation** Water - Degradation 90 - 100%: 10 days

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

### 12.4. Mobility in soil

**Mobility** No data available.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** None known.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

**General information** Waste disposal should be in accordance with existing Community, National and local regulations Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.

**Disposal methods** Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

**Waste class** 08 04 09\* waste adhesives and sealants containing organic solvents or other dangerous substances.

## **SECTION 14: Transport information**

**General** The product is not classified as dangerous for carriage.

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

Not applicable.

### 14.4. Packing group

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Not applicable.

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**

No.

### 14.6. Special precautions for user

Not applicable.

### 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

<b>National regulations</b>	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
<b>EU legislation</b>	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). COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
<b>Guidance</b>	Workplace Exposure Limits EH40. CHIP for everyone HSG228. Approved Classification and Labelling Guide (Sixth edition) L131. Safety Data Sheets for Substances and Preparations.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

<b>Revision date</b>	15/02/2022
<b>Revision</b>	8
<b>Supersedes date</b>	19/10/2020
<b>Hazard statements in full</b>	H242 Heating may cause a fire. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H331 Toxic if inhaled. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects.

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.