

LOXEAL®

ENGINEERING ADHESIVES

SAFETY DATA SHEET

Loxreal 86-72

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

1.1. Product identifier

Product name Loxreal 86-72

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

Supplier:
Unipak A/S
Marktoften 3c
8464 Galten
Denmark
Phone: +45 8626 1177
E-mail: sales@unipak.dk

1.4. Emergency telephone number

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 Skin Sens. 1 - H317
Environmental hazards Aquatic Chronic 3 - H412

2.2. Label elements

Hazard pictograms



Signal word Warning

Hazard statements
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements
P273 Avoid release to the environment.
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.

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Contains	N,N-(m-PHENYLENE)DIMALEIMIDE, 2-PHENOXYETHYL METHACRYLATE
Supplementary precautionary statements	<p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/ attention.</p> <p>P501 Dispose of contents/container in accordance with existing Community, National and local regulations.</p>

2.3. Other hazards

This product contains N,N-(m-phenylene)dimalaideimide which, in powder form, is classified as very toxic by inhalation. When present in solution, as in this case, such exposure can be excluded under normal working conditions and so this product is not labelled as such. However, if during use, there is a possibility that an aerosol mist may be formed then appropriate measures must be taken to exclude exposure by inhalation.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

POLY(OXY-1,2-ETHANEDIYL), A,A'-[(1-METHYLETHYLIDENE)DI-4,1-PHENYLENE]BIS[Ω-[(2-METHYL-1-OXO-2-PROPEN-1-YL)OXY]-	60-100%
CAS number: 41637-38-1 EC number: 609-946-4 REACH registration number: 01-2119980659-17-XXXX	
Classification Aquatic Chronic 4 - H413	
N,N-(m-PHENYLENE)DIMALEIMIDE	10-<20%
CAS number: 3006-93-7 EC number: 221-112-8 REACH registration number: 01-2120756106-57-XXXX	
Classification Acute Tox. 4 - H302 Acute Tox. 2 - H330 Skin Sens. 1A - H317 Aquatic Chronic 2 - H411	
2-PHENOXYETHYL METHACRYLATE	1-<3
CAS number: 10595-06-9 EC number: 234-201-1 REACH registration number: 01-2120752383-55-XXXX	
Classification Skin Sens. 1A - H317 Repr. 2 - H361d Aquatic Chronic 2 - H411	

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WHITE MINERAL OIL (PETROLEUM)			1-<3
CAS number: 8042-47-5	EC number: 232-455-8	REACH registration number: 01-2119487078-27-XXXX	
Classification			
Asp. Tox. 1 - H304			
CUMENE HYDROPEROXIDE			<1%
CAS number: 80-15-9	EC number: 201-254-7	REACH registration number: 01-2119475796-19-XXXX	
Classification			
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			

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

SECTION 4: First aid measures**4.1. Description of first aid measures**

Inhalation	Move the exposed person to fresh air. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Get medical attention.
Skin contact	Wash skin thoroughly with soap and water. If symptoms develop, obtain medical attention
Eye contact	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.

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

Skin contact	Skin irritation. Mild dermatitis, allergic skin rash.
Eye contact	Causes serious eye damage.

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

Notes for the doctor	No specific recommendations. Treat symptomatically.
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media	Foam, carbon dioxide or dry powder.
Unsuitable extinguishing media	Water.

5.2. Special hazards arising from the substance or mixture

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Hazardous combustion products Burning produces irritating, toxic and obnoxious fumes. Carbon monoxide, carbon dioxide, and unknown hydrocarbons.

5.3. Advice for firefighters

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

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.

6.2. Environmental precautions

Environmental precautions Not considered to be a significant hazard due to the small quantities used. Avoid discharge into drains.

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. Avoid eating, drinking and smoking when using the 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

Ingredient comments No exposure limits known for ingredient(s).

POLY(OXY-1,2-ETHANEDIYL), A,A'-[(1-METHYLETHYLIDENE)DI-4,1-PHENYLENE]BIS[O-[(2-METHYL-1-OXO-2-PROPEN-1-YL)OXY]- (CAS: 41637-38-1)

DNEL Workers - Inhalation; Long term systemic effects: 3.52 mg/m³
Workers - Dermal; Long term systemic effects: 2 mg/kg/day

N,N-(m-PHENYLENE)DIMALEIMIDE (CAS: 3006-93-7)

DNEL Workers - Inhalation; Long term systemic effects: 0.176 mg/m³
Workers - Dermal; Long term systemic effects: 0.05 mg/kg/day

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PNEC	Fresh water; 0.01 mg/l marine water; 0.001 mg/l STP; 0.051 mg/l Sediment (Freshwater); 0.035 mg/kg Sediment (Marinewater); 0.035 mg/kg Soil; 0.063 mg/kg
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2-PHENOXYETHYL METHACRYLATE (CAS: 10595-06-9)

DNEL	Workers - Inhalation; Long term systemic effects: 12 mg/m ³ Workers - Inhalation; Long term local effects: 84 mg/m ³ Workers - Dermal; Long term systemic effects: 3.5 mg/kg/day
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PNEC	Fresh water; 14.2 µg/l marine water; 1.42 µg/l STP; 1.77 mg/l Sediment (Freshwater); 0.665 mg/kg Sediment (Marinewater); 0.067 mg/kg Soil; 0.125 mg/kg
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WHITE MINERAL OIL (PETROLEUM) (CAS: 8042-47-5)

DNEL	Workers - Inhalation; Long term systemic effects: 160 mg/m ³ Workers - Dermal; Long term local effects: 220 mg/kg/day
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PNEC	Technically not feasible.
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CUMENE HYDROPEROXIDE (CAS: 80-15-9)

DNEL	Workers - Inhalation; Long term systemic effects: 6 mg/m ³
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PNEC	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
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8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

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

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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: ≥ 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: ≥ 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)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Opaque liquid. Liquid.
Colour	Red.
Odour	Acrylic
Odour threshold	Not available.
pH	Not relevant.
Melting point	Not available.
Initial boiling point and range	Not applicable.
Flash point	$>100^{\circ}\text{C}$
Evaporation rate	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	1.1
Relative density	«59» «184»
Solubility(ies)	Slightly soluble in water. Miscible with the following materials: Organic solvents.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	≈ 22000 mPa s @ 25°C Thixotropic
Oxidising properties	Not available.

9.2. Other information

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Other information Not relevant.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The following materials may react with the product: Strong oxidising agents.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions There are no known reactivity hazards associated with this product.

10.4. Conditions to avoid

Conditions to avoid Avoid the absence of air, and metal contamination.

10.5. Incompatible materials

Materials to avoid Metals and their salts. Free radical initiators.

10.6. Hazardous decomposition products

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

In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

Ingestion

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

Skin contact

Irritating to skin. May cause sensitisation by skin contact.

Eye contact

Causes serious eye damage.

Toxicological information on ingredients.

POLY(OXY-1,2-ETHANEDIYL), A,A'-[(1-METHYLETHYLIDENE)DI-4,1-PHENYLENE]BIS[O-[(2-METHYL-1-OXO-2-PROPEN-1-YL)OXY]-

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,000.1

Species Rat

Acute toxicity - dermal

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Acute toxicity dermal (LD₅₀ 2,000.1 mg/kg)

Species Rat

Acute toxicity - inhalation

Notes (inhalation LC₅₀) No information available.

Skin corrosion/irritation

Skin corrosion/irritation Read-across data. Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Read-across data. Not irritating.

Skin sensitisation

Skin sensitisation Read-across data. Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Chromosome aberration: Negative.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility Screening - NOAEL 1000 mg/kg/day, Oral, Rat F1

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Read-across data. NOAEL 300 mg/kg/day, Oral, Rat

Aspiration hazard

Aspiration hazard Not available.

N,N-(m-PHENYLENE)DIMALEIMIDE**Acute toxicity - oral**

Acute toxicity oral (LD₅₀ 500.0 mg/kg)

Species Rat

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 0.089

Species Rat

Skin corrosion/irritation

Human skin model test Cell Viability 3.3 60 minutes Not irritating.

Serious eye damage/irritation

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Serious eye damage/irritation	Not irritating.
<u>Skin sensitisation</u>	
Skin sensitisation	Local Lymph Node Assay (LLNA) - Mouse: Sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Gene mutation: Negative.
<u>Carcinogenicity</u>	
Carcinogenicity	No information available.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Screening - NOAEL 240 mg/kg/day, Oral, Rat P
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	No information available.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	No information available.
<u>Aspiration hazard</u>	
Aspiration hazard	No information available.

2-PHENOXYETHYL METHACRYLATE

<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD₅₀ mg/kg)	5,000.0
Species	Rat
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	No information available.
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	No information available.
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Slightly irritating.
Animal data	Primary dermal irritation index: 0.25
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Slightly irritating.
<u>Skin sensitisation</u>	
Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Chromosome aberration: Negative.
<u>Carcinogenicity</u>	
Carcinogenicity	No information available.

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Reproductive toxicity

Reproductive toxicity - fertility Screening - NOAEL 800 mg/kg/day, Oral, Rat F1

Reproductive toxicity - development Developmental toxicity: - NOAEL: 600 mg/kg/day, Oral, Rat

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 350 mg/kg/day, Oral, Rat

Aspiration hazard

Aspiration hazard Not available.

WHITE MINERAL OIL (PETROLEUM)

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,000.1

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.1

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 5.01

Species Rat

Skin corrosion/irritation

Animal data Rabbit Not corrosive to skin.

Serious eye damage/irritation

Serious eye damage/irritation Rabbit Not irritating.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative.

Genotoxicity - in vivo Chromosome aberration: Negative.

Carcinogenicity

Carcinogenicity NOAEL >= 1200 mg/kg/day, Oral, Rat

Reproductive toxicity

Reproductive toxicity - fertility Fertility - NOAEL >-1000 mg/kg, Oral, Rat F1

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Specific target organ toxicity - single exposure

STOT - single exposure Not classified.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified.

Aspiration hazard

Aspiration hazard May be fatal if swallowed and enters airways.

CUMENE HYDROPEROXIDE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 328.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 1,200.0

Species Rat

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 1.37

Species Rat

Skin corrosion/irritation

Animal data Highly irritating.

Serious eye damage/irritation

Serious eye damage/irritation Irritating to eyes.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Positive.

Genotoxicity - in vivo This substance has no evidence of mutagenic properties.

Carcinogenicity

Carcinogenicity CMR: No

Reproductive toxicity

Reproductive toxicity - fertility No specific test data are available.

Reproductive toxicity - development Developmental toxicity: - NOAEL: ≥100 mg/kg/day, Oral, Rat

Specific target organ toxicity - single exposure

STOT - single exposure No specific test data are available.

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Specific target organ toxicity - repeated exposure

STOT - repeated exposure Toxic: danger of serious damage to health by prolonged exposure through inhalation.

Aspiration hazard

Aspiration hazard No specific test data are available.

SECTION 12: Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

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.

POLY(OXY-1,2-ETHANEDIYL), A,A'-[(1-METHYLETHYLIDENE)DI-4,1-PHENYLENE]BIS[O-[(2-METHYL-1-OXO-2-PROPEN-1-YL)OXY]-

Acute aquatic toxicity

Acute toxicity - fish LL₅₀, 96 hours: >100 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates NOELR, 48 hours: 100 mg/l, Daphnia magna

Acute toxicity - microorganisms NOEC, 3 hours: 10 mg/l, Activated sludge

N,N-(m-PHENYLENE)DIMALLEIMIDE

Acute aquatic toxicity

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 31.6 mg/l, Daphnia magna

2-PHENOXYETHYL METHACRYLATE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 72 hours: 10 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic invertebrates LC₅₀, 48 hours: 1.21 mg/l, Daphnia magna

Acute toxicity - aquatic plants LC₅₀, 72 hours: 4.44 mg/l, Desmodemus subspicatus

Acute toxicity - microorganisms EC₅₀, 180 minutes: 177 mg/l, Activated sludge

CUMENE HYDROPEROXIDE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hour: 3.9 mg/l, Oncorhynchus mykiss (Rainbow trout)

12.2. Persistence and degradability

Persistence and degradability No data available.

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Ecological information on ingredients.

POLY(OXY-1,2-ETHANEDIYL), A,A'-[(1-METHYLETHYLIDENE)DI-4,1-PHENYLENE]BIS[O-[(2-METHYL-1-OXO-2-PROPEN-1-YL)OXY]-

Persistence and degradability The product is biodegradable.

CUMENE HYDROPEROXIDE

Biodegradation The substance is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Ecological information on ingredients.

POLY(OXY-1,2-ETHANEDIYL), A,A'-[(1-METHYLETHYLIDENE)DI-4,1-PHENYLENE]BIS[O-[(2-METHYL-1-OXO-2-PROPEN-1-YL)OXY]-

Partition coefficient log Pow: 5.30~5.62

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.

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14.4. Packing group

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

National regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
EU legislation	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) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
Guidance	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

Revision date	30/11/2020
Revision	6
Supersedes date	09/10/2018

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Hazard statements in full

H242 Heating may cause a fire.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
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.
H330 Fatal if inhaled.
H331 Toxic if inhaled.
H335 May cause respiratory irritation.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

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.