

Sicherheitsdatenblatt



Produkt: ES550

Hersteller: PERMABOND ENGINEERING ADHESIVES

Warengruppe: KLEBSTOFF

Artikelgruppe: 1-K KLEBSTOFF

Download: 29.03.2024

PERMABOND ES550

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SAFETY DATA SHEET

Permabond ES550

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

1.1. Product identifier

Product name Permabond ES550

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

Identified uses Adhesive.

1.3. Details of the supplier of the safety data sheet

Supplier Permabond Engineering Adhesives Ltd.
 Wessex Way
 Colden Common
 Winchester
 Hampshire SO21 1WP
 United Kingdom
 Tel: +44 (0)1962 711 661
 Fax: +44 (0)1962 711 662
 info.europe@permabond.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 Ireland: +(353)-19014670
 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 Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 2 - H411

2.2. Label elements

Hazard pictograms



Signal word Warning

Hazard statements H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.
 H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements	<p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352a IF ON SKIN: Wash with plenty of soap and water</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p>
Supplemental label information	EUH205 Contains epoxy constituents. May produce an allergic reaction.
Contains	EPOXY RESIN (Number average MW ≤ 700)
Supplementary precautionary statements	<p>P261 Avoid breathing vapour/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P391 Collect spillage.</p> <p>P501 Dispose of contents/container in accordance with existing Community, National and local regulations.</p>

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

EPOXY RESIN (Number average MW <= 700)			10-30%
CAS number: 1675-54-3	EC number: 216-823-5	REACH registration number: 01-2119456619-26-XXXX	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411			

FORMALDEHYDE, OLIGOMERIC REACTION PRODUCT WITH 1-CHLORO, 2,3-EPOXYPROPANE AND PHENOL			10-30%
CAS number: 9003-36-5	EC number: 500-006-8	REACH registration number: 01-2119454392-40-XXXX	
Classification Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411			

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4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3- EPOXYPROPANE			5-10%
CAS number: 25068-38-6	EC number: 500-033-5	REACH registration number: 01-2119456619-26-XXXX	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411			
METHYLENE DIPHENYL BIS(DIMETHYL UREA)			1-5%
CAS number: 10097-09-3	EC number: 423-370-9	REACH registration number: 01-0000016986-54-XXXX	
Classification Aquatic Chronic 3 - H412			
N,N'-ETHANE-1,2-DIYLBIS(12-HYDROXYOCTADECAN-1-AMIDE)			<1%
CAS number: 123-26-2	EC number: 204-613-6	REACH registration number: 01-2119978265-26-XXXX	
Classification Skin Sens. 1B - H317 Aquatic Chronic 3 - H412			

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 if any discomfort continues.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. If symptoms develop, obtain medical attention
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Get medical attention if any discomfort continues.

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

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

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

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5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

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 Do not discharge into drains or watercourses or onto the ground.

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 ingest or inhale. Do not eat, drink or smoke when using the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store at temperatures between 2°C and 7°C.

7.3. Specific end use(s)

Specific end use(s) Adhesive.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

EPOXY RESIN (Number average MW ≤ 700) (CAS: 1675-54-3)

DNEL

Workers - Inhalation; Long term systemic effects: 12.25 mg/m³
 Workers - Dermal; Long term systemic effects: 8.33 mg/kg/day
 Workers - Inhalation; Short term systemic effects: 12.25 mg/m³
 Workers - Dermal; Short term systemic effects: 8.33 mg/kg/day

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PNEC	- Fresh water; Long term 0.006 mg/l
	- Sediment (Freshwater); Long term 0.996 mg/l
	- Sediment (Marinewater); 0.0996 mg/l
	- STP; Long term 10 mg/l
	- Soil; Long term 0.196 mg/l
	- marine water; 0.0006 mg/l
	- Water; 0.0018 mg/l

FORMALDEHYDE, OLIGOMERIC REACTION PRODUCT WITH 1-CHLORO, 2,3-EPOXYPROPANE AND PHENOL (CAS: 9003-36-5)

DNEL	Workers - Dermal; Short term local effects: 8.3 ppm
	Workers - Dermal; Long term systemic effects: 104.15 mg/kg/day
	Workers - Inhalation; Long term systemic effects: 29.39 mg/m ³
PNEC	Fresh water; 0.003 mg/l
	marine water; 0.0003 mg/l
	Sediment (Freshwater); 0.294 mg/kg
	Sediment (Marinewater); 0.0294 mg/kg
	Soil; 0.237 mg/kg
	Intermittent release; 0.0254 mg/l
	STP; 10 mg/l

4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE (CAS: 25068-38-6)

DNEL	Workers - Inhalation; Long term systemic effects: 12.25 mg/m ³
	Workers - Dermal; Long term systemic effects: 8.33 mg/kg/day
	Workers - Inhalation; Short term systemic effects: 12.25 mg/m ³
	Workers - Dermal; Short term systemic effects: 8.33 mg/kg/day
PNEC	- Fresh water; Long term 0.006 mg/l
	- Sediment (Freshwater); Long term 0.996 mg/l
	- Sediment (Marinewater); 0.0996 mg/l
	- STP; Long term 10 mg/l
	- Soil; Long term 0.196 mg/l
	- marine water; 0.0006 mg/l
	- Water; 0.0018 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

The following protection should be worn: Chemical splash 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.
Hygiene measures	Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. 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	Paste.
Colour	Silver. Grey.
Odour	Mild.
Odour threshold	No information available.
pH	Not relevant.
Melting point	Not available.
Initial boiling point and range	Not relevant.
Flash point	$>100^{\circ}\text{C}$
Evaporation rate	Not available.
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1.5
Solubility(ies)	Insoluble in water. Soluble in the following materials: Organic solvents.
Partition coefficient	Not known.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not available.
Viscosity	~ 1500000 mPa s @ 23°C Thixotropic
Explosive properties	Not relevant.
Oxidising properties	Not applicable.

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9.2. Other information

Other information Not relevant.

Volatile organic compound This product contains a maximum VOC content of 1 %.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stability Stable at normal ambient temperatures. Polymerises when heated.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Reactions with the following materials may generate heat: Amines.

10.4. Conditions to avoid

Conditions to avoid Do not store near heat sources or expose to high temperatures.

10.5. Incompatible materials

Materials to avoid Amines. Strong oxidising agents.

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.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Irritating to respiratory system.

Serious eye damage/irritation

Serious eye damage/irritation Irritating to eyes.

Skin sensitisation

Skin sensitisation May cause sensitisation by skin contact.

Aspiration hazard

Aspiration hazard None under normal conditions.

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

Toxicological information on ingredients.

EPOXY RESIN (Number average MW ≤ 700)

Acute toxicity - oral

Acute toxicity oral (LD₅₀) 11,400.0
mg/kg)

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Species	Rat
<u>Acute toxicity - dermal</u>	
Acute toxicity dermal (LD₅₀ mg/kg)	2,000.1
Species	Rabbit
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	No specific test data are available.
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Not irritating.
Animal data	Oedema score: Very slight oedema - barely perceptible (1).
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Not irritating.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	No specific test data are available.
<u>Skin sensitisation</u>	
Skin sensitisation	Local Lymph Node Assay (LLNA) - Mouse: Sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Conclusive data but not sufficient for classification.
<u>Carcinogenicity</u>	
Carcinogenicity	Conclusive data but not sufficient for classification.
IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Fertility - NOAEL 750 mg/kg/day, Oral, Rat
Reproductive toxicity - development	Developmental toxicity: - NOAEL: 180 mg/kg/day, Oral, Rat
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	No specific test data are available.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Conclusive data but not sufficient for classification.
<u>Aspiration hazard</u>	
Aspiration hazard	Based on available data the classification criteria are not met.

FORMALDEHYDE, OLIGOMERIC REACTION PRODUCT WITH 1-CHLORO, 2,3-EPOXYPROPANE AND PHENOL

<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD₅₀ mg/kg)	10,000.0

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Species Rat

Acute toxicity - dermal

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

Species Rat

Acute toxicity - inhalation

Notes (inhalation LC₅₀) No information available.

Skin corrosion/irritation

Animal data Method: OECD 404, Rabbit Slightly irritating.

Serious eye damage/irritation

Serious eye damage/irritation Method: OECD 405, Rabbit Not irritating.

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Positive.

Genotoxicity - in vivo Chromosome aberration: Negative.

Carcinogenicity

Carcinogenicity Data lacking.

Reproductive toxicity

Reproductive toxicity - fertility Read-across data. Two-generation study - NOAEL 750 mg/kg/day, Oral, Rat F2

Reproductive toxicity - development Read-across data. Developmental toxicity: - NOAEL: 30 mg/kg, Dermal, Rabbit

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard Not available.

4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE

Acute toxicity - oral

Acute toxicity oral (LD₅₀) 11,400.0 mg/kg

Species Rat

Acute toxicity - dermal

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

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Species	Rabbit
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	No specific test data are available.
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Not irritating.
Animal data	Oedema score: Very slight oedema - barely perceptible (1).
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Not irritating.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	No specific test data are available.
<u>Skin sensitisation</u>	
Skin sensitisation	Local Lymph Node Assay (LLNA) - Mouse: Sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Conclusive data but not sufficient for classification.
<u>Carcinogenicity</u>	
Carcinogenicity	Conclusive data but not sufficient for classification.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Fertility - NOAEL 750 mg/kg/day, Oral, Rat
Reproductive toxicity - development	Developmental toxicity: - NOAEL: 180 mg/kg/day, Oral, Rat
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	No specific test data are available.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Conclusive data but not sufficient for classification.
<u>Aspiration hazard</u>	
Aspiration hazard	Based on available data the classification criteria are not met.

METHYLENE DIPHENYL BIS(DIMETHYL UREA)

<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD₅₀ mg/kg)	5,000.0
Species	Rat
<u>Acute toxicity - dermal</u>	
Acute toxicity dermal (LD₅₀ mg/kg)	2,000.1
Species	Rabbit
<u>Acute toxicity - inhalation</u>	

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Notes (inhalation LC₅₀) Not available.

Skin corrosion/irritation

Skin corrosion/irritation Moderately irritating.

Serious eye damage/irritation

Serious eye damage/irritation Slightly irritating.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Ames test: Negative.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOEL 15 mg/kg/day, Oral, Rat

Aspiration hazard

Aspiration hazard Not available.

N,N'-ETHANE-1,2-DIYLBIS(12-HYDROXYOCTADECAN-1-AMIDE)

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,001.0

Species Guinea pig

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 5,050.0

Species Guinea pig

SECTION 12: Ecological information

Ecotoxicity Toxic 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.

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EPOXY RESIN (Number average MW ≤ 700)

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 24 hours: 4.4 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates LC₅₀, 24 hours: 4.9 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 48 hours: 9.1 mg/l, Selenastrum capricornutum

Acute toxicity - microorganisms IC₅₀, 3 hours: > 100 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0.3 mg/l, Daphnia magna

FORMALDEHYDE, OLIGOMERIC REACTION PRODUCT WITH 1-CHLORO, 2,3-EPOXYPROPANE AND PHENOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 2.54 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 2.55 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 1.8 mg/l, Algae

4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 24 hours: 4.4 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates LC₅₀, 24 hours: 4.9 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 48 hours: 9.1 mg/l, Selenastrum capricornutum

Acute toxicity - microorganisms IC₅₀, 3 hours: > 100 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0.3 mg/l, Daphnia magna

METHYLENE DIPHENYL BIS(DIMETHYL UREA)

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: > 30.2 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 39.8 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 96 hours: 29.4 mg/l, Algae

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12.2. Persistence and degradability

Persistence and degradability The product is not readily biodegradable.

Ecological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

Biodegradation Water - 6 - 12%: 28 days

4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE

Biodegradation Water - 6 - 12%: 28 days

12.3. Bioaccumulative potential

Bioaccumulative potential The product contains potentially bioaccumulating substances.

Partition coefficient Not known.

Ecological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

Bioaccumulative potential BCF: 100 - 3000,

Partition coefficient log Pow: 3.242

4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE

Bioaccumulative potential BCF: 100 - 3000,

Partition coefficient log Pow: 3.242

METHYLENE DIPHENYL BIS(DIMETHYL UREA)

Bioaccumulative potential log Kow: 1.14,

12.4. Mobility in soil

Mobility No data available. The product has poor water-solubility.

Ecological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

Adsorption/desorption coefficient Water - log Koc: 2.65 @ 20°C

4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE

Adsorption/desorption coefficient Water - log Koc: 2.65 @ 20°C

METHYLENE DIPHENYL BIS(DIMETHYL UREA)

Adsorption/desorption coefficient Soil - Kow: 91 @ 20.5°C

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12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

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 Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

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

SECTION 14: Transport information

Road transport notes Applies only to inner containers >5 litres. See SP 375

Sea transport notes Applies only to inner containers >5 litres. See 2.10.2.7 of the IMDG code.

Air transport notes Applies only to inner containers >5 litres. See SP A197 (375)

14.1. UN number

3082

14.2. UN proper shipping name

Environmentally hazardous substance, liquid, n.o.s. (contains Epoxy resin)

14.3. Transport hazard class(es)

9

Transport labels



14.4. Packing group

III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

Tunnel restriction code (E)

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

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

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. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date	02/10/2020
Revision	6
Supersedes date	27/08/2020
Hazard statements in full	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects. H412 Harmful 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.