

# SAFETY DATA SHEET Permabond ET538A

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

# 1.1. Product identifier

Product name Permabond ET538A

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

**Identified uses**Two-component, epoxy-based adhesive.

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

Supplier Permabond Engineering Adhesives GmbH

Niederkasseler Lohweg 18

40547 Düsseldorf

Germany

info.europe@permabond.com

Manufacturer 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@permabond.co.uk

#### 1.4. Emergency telephone number

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

National emergency telephone CHEMTREC Ireland: +(353)-19014670 number 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

#### Permabond ET538A

**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.

**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.

Supplemental label

information

EUH205 Contains epoxy constituents. May produce an allergic reaction.

Contains EPOXY RESIN (Number average MW <= 700 ), 4,4'-ISOPROPYLIDENEDIPHENOL,

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

**EPOXYPROPANE AND PHENOL** 

Supplementary precautionary

statements

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.

P391 Collect spillage.

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

## EPOXY RESIN (Number average MW <= 700) 60-100%

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

# 4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC

5-10%

REACTION PRODUCTS WITH 1-CHLORO-2,3-

**EPOXYPROPANE** 

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

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

1-5%

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

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

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

Move the exposed person to fresh air. Get medical attention if any discomfort continues. Inhalation

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 Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Remove any

contact lenses and open eyelids wide apart. 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.

# SECTION 5: Firefighting measures

# 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. Nitrous gases (NOx). 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.

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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. Wash area with soap and water.

#### 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 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.

7.3. Specific end use(s)

Specific end use(s) Adhesive. Sealant.

#### 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

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/lSoil; Long term 0.196 mg/lmarine 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/m³

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

# 8.2. Exposure controls

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#### Protective equipment







Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

The following protection should be worn: Chemical splash 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: ≥ 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

Employee must wear appropriate protective clothing and equipment to prevent any possibility

of skin contact with this substance.

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 White.

Odour Mild

Odour threshold Not available.

pH Not available.

Melting point Not determined.

Flash point >100°C

**Evaporation rate** Not available.

Upper/lower flammability or

Initial boiling point and range

explosive limits

Not applicable.

Not applicable.

Vapour pressure Not determined.

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Vapour density Not available.

Relative density 1.1

Solubility(ies) Insoluble in water. Soluble in the following materials: Organic solvents.

Partition coefficient Not applicable.

Auto-ignition temperature Not determined.

Decomposition Temperature Not available.

Viscosity ≈225000 mPa s @ 23°C Thixotropic

Explosive properties Not determined.

Oxidising properties Not determined.

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 Under normal conditions of storage and use, no hazardous reactions will occur.

10.2. Chemical stability

**Stability** Stable at normal ambient temperatures.

#### 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 Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong acids. Strong alkalis.

# 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.

Skin sensitisation

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

Aspiration hazard

**Aspiration hazard** None under normal conditions.

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**Inhalation** Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at

ambient temperature. 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.

**Eye contact** Irritating and may cause redness and pain.

Toxicological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

Acute toxicity - oral

Acute toxicity oral (LD₅o

11,400.0

mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,000.1

mg/kg)

Species Rabbit

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) No specific test data are available.

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Animal data Oedema score: Very slight oedema - barely perceptible (1).

Serious eye damage/irritation

Serious eye

damage/irritation

Not irritating.

Respiratory sensitisation

**Respiratory sensitisation** No specific test data are available.

Skin sensitisation

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

Germ cell mutagenicity

**Genotoxicity - in vitro**Conclusive data but not sufficient for classification.

Carcinogenicity

Carcinogenicity Conclusive data but not sufficient for classification.

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity -

fertility

Fertility - NOAEL 750 mg/kg/day, Oral, Rat

Reproductive toxicity -

development

Developmental toxicity: - NOAEL: 180 mg/kg/day, Oral, Rat

Specific target organ toxicity - single exposure

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**STOT - single exposure** No specific test data are available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Conclusive data but not sufficient for classification.

Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

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

Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> 11,400.0

mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,000.1

mg/kg)

Species Rabbit

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) No specific test data are available.

Skin corrosion/irritation

**Skin corrosion/irritation** Not irritating.

Animal data Oedema score: Very slight oedema - barely perceptible (1).

Serious eye damage/irritation

Serious eye Not irritating.

damage/irritation

Respiratory sensitisation No specific test data are available.

Skin sensitisation

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

Germ cell mutagenicity

Respiratory sensitisation

**Genotoxicity - in vitro**Conclusive data but not sufficient for classification.

Carcinogenicity

**Carcinogenicity** Conclusive data but not sufficient for classification.

Reproductive toxicity

Reproductive toxicity -

Fertility - NOAEL 750 mg/kg/day, Oral, Rat

fertility

Reproductive toxicity -

development

Developmental toxicity: - NOAEL: 180 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 Conclusive data but not sufficient for classification.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

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

Acute toxicity - oral

Acute toxicity oral (LD50

10,000.0

mg/kg)

**Species** Rat

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,000.1

mg/kg)

**Species** Rat

Acute toxicity - inhalation

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

Skin corrosion/irritation

Animal data Method: OECD 404, Rabbit Slightly irritating.

Serious eye damage/irritation

Serious eye

Method: OECD 405, Rabbit Not irritating.

damage/irritation

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 -

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

fertility

Reproductive toxicity -

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

development

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

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Aspiration hazard Not available.

## 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.

#### 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

LC<sub>50</sub>, 24 hours: 4.9 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅o, 48 hours: 9.1 mg/l, Selenastrum capricornutum

Acute toxicity - IC₅o, 3 hours: > 100 mg/l, Activated sludge

microorganisms

**Chronic aquatic toxicity** 

Chronic toxicity - aquatic

invertebrates

NOEC, 21 days: 0.3 mg/l, Daphnia magna

# 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

LC<sub>50</sub>, 24 hours: 4.9 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 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

NOEC, 21 days: 0.3 mg/l, Daphnia magna

invertebrates

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

Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 2.54 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 2.55 mg/l, Daphnia magna

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Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: 1.8 mg/l, Algae

## 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

Partition coefficient Not applicable.

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

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

ion vv

Water - log Koc: 2.65 @ 20°C

coefficient

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

Adsorption/desorption

Water - log Koc: 2.65 @ 20°C

coefficient

## 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

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

assessment

12.6. Other adverse effects

Other adverse effects None known.

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## **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**

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

Ш

# 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



# 14.6. Special precautions for user

**EmS** F-A, S-F

Tunnel restriction code (E)

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

#### SECTION 15: Regulatory information

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

# Permabond ET538A

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 13/07/2021

Revision 9

Supersedes date 10/01/2020

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.

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.