# Security data sheet



**Product:** TA4630

Manufacturer: PERMABOND ENGINEERING ADHESIVES

Product group: **KLEBSTOFF** 

Article group: ACRYLAT

Download: 12.05.2024

PERMABOND TA4630B

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# SAFETY DATA SHEET Permabond TA4630B

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

## 1.1. Product identifier

Product name Permahond TA4630B

#### 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 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 Repr. 1B - H360D

Environmental hazards Aquatic Chronic 3 - H412

#### 2.2. Label elements

# Hazard pictograms





Signal word Danger

Hazard statements H315 Causes skin irritation.

H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H360D May damage the unborn child.

H412 Harmful to aquatic life with long lasting effects.

## Permabond TA4630B

Precautionary statements P202 Do not handle until all safety precautions have been read and understood.

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.

P308+P313 IF exposed or concerned: Get medical advice/ attention.

Contains TETRAHYDROFURFURYL METHACRYLATE, 2-ETHYLHEXYL METHACRYLATE,

TRIETHYLBORANE-1,3-DIAMINOPROPANE COMPLEX

Supplementary precautionary

statements

P261 Avoid breathing vapour/ spray.

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.

P405 Store locked up.

P501 Dispose of contents/container in accordance with existing Community, National and

local regulations.

#### 2.3. Other hazards

None under normal conditions.

## SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

#### TETRAHYDROFURFURYL METHACRYLATE

60-100%

CAS number: 2455-24-5 EC number: 219-529-5 REACH registration number: 01-

2120748481-53-XXXX

#### Classification

Skin Sens. 1 - H317 Repr. 1B - H360D

Aquatic Chronic 3 - H412

## 2-ETHYLHEXYL METHACRYLATE

5-10%

CAS number: 688-84-6 EC number: 211-708-6 REACH registration number: 01-

2119490166-35-XXXX

#### Classification

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT SE 3 - H335

Aquatic Chronic 3 - H412

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#### TRIETHYLBORANE-1,3-DIAMINOPROPANE COMPLEX

1-5%

CAS number: 148861-07-8

REACH registration exemption - < 1 tonne

Classification

Acute Tox. 4 - H312 Skin Corr. 1A - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317

#### 2-DIMETHYLAMINOETHYL METHACRYLATE

<1%

CAS number: 2867-47-2 EC number: 220-688-8 REACH registration number: 01-

2119474677-22-XXXX

Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1B - H317

## **METHYL METHACRYLATE**

<1%

CAS number: 80-62-6 EC number: 201-297-1 REACH registration number: 01-

2119452498-28-XXXX

Classification

Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 STOT SE 3 - H335

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 Remove contaminated clothing. Wash skin thoroughly with soap and water. If symptoms

develop, obtain medical attention

Eye contact Remove any contact lenses and open eyelids wide apart. 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

**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

#### **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media Foam, carbon dioxide or dry powder.

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

Burning produces irritating, toxic and obnoxious fumes. Carbon monoxide, carbon dioxide, and unknown hydrocarbons. Oxides of nitrogen.

products

5.3. Advice for firefighters

Special protective equipment

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

for firefighters 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. 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. Never return

unused material to storage receptacle.

7.3. Specific end use(s)

Usage description Adhesive.

## SECTION 8: Exposure controls/Personal protection

# 8.1. Control parameters

## Occupational exposure limits

#### METHYL METHACRYLATE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 208 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 100 ppm 416 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit.

## TETRAHYDROFURFURYL METHACRYLATE (CAS: 2455-24-5)

**DNEL** Workers - Inhalation; Long term systemic effects: 3.53 mg/m³

Workers - Dermal; Long term systemic effects: 1 mg/kg/day

PNEC Fresh water; 0.347 mg/l

marine water; 0.035 mg/l

Sediment (Freshwater); 2.12 mg/kg Sediment (Marinewater); 0.212 mg/kg

Soil; 0.221 mg/kg STP; 15.8 mg/l

## 2-ETHYLHEXYL METHACRYLATE (CAS: 688-84-6)

**DNEL** Workers - Inhalation; Long term systemic effects: 2.5 mg/m³

Workers, Industry/Professional - Dermal; Long term: 5 mg/kg/day

PNEC Fresh water; 0.003 mg/l

marine water; 0 mg/l

STP; 10 mg/l

Sediment (Freshwater); 2.24 mg/kg Sediment (Marinewater); 0.224 mg/kg

Soil; 0.446 mg/kg

## **METHYL METHACRYLATE (CAS: 80-62-6)**

**DNEL** Workers, Industry/Professional - Inhalation; Long term : 208 mg/m³

Workers, Industry/Professional - Dermal; Long term: 13.67 mg/kg/day Workers, Industry/Professional - Inhalation; Short term: 416 mg/m³

PNEC Workers, Industry/Professional - Water; Long term <0.94 mg/l

#### TRIMETHYLENEDIAMINE (CAS: 109-76-2)

**DNEL** Workers - Inhalation; Long term systemic effects: 3 mg/m³

Workers - Dermal; Long term systemic effects: 0.26 mg/kg/day

PNEC Fresh water; 0.2 mg/l

marine water; 0.02 mg/l

STP; 10 mg/l

Sediment (Freshwater); 96 mg/kg Sediment (Marinewater); 9.6 mg/kg

Soil; 19 mg/kg

## 8.2. Exposure controls

#### Protective equipment







Appropriate engineering controls

Provide adequate 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

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

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. 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 Liquid.

Colour Translucent.

Odour Acrylic

Odour threshold Not available.

pH Not relevant.

Melting point Not available.

**Initial boiling point and range** Not applicable.

Flash point >100°C

**Evaporation rate** Not available.

Upper/lower flammability or

explosive limits

Not available.

Vapour pressure Not available.

Vapour density Not available.

Relative density 1.0

**Solubility(ies)** Slightly soluble in water. Miscible with the following materials: Organic solvents.

Partition coefficient Not available.

Auto-ignition temperature Not available.

Decomposition Temperature Not available.

Viscosity ≈12000 mPa s @ 25°C

**Explosive properties** Not determined.

## Permabond TA4630B

Oxidising properties Not available.

9.2. Other information

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 Stable at normal ambient temperatures and when used as recommended.

### 10.5. Incompatible materials

Materials to avoid

No specific material or group of materials is likely to react with the product to produce a

hazardous situation.

#### 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.

Reproductive toxicity

Reproductive toxicity -

development

May damage the unborn child.

Aspiration hazard

**Aspiration hazard** Not anticipated to present an aspiration hazard, based on chemical structure.

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

ambient temperature.

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

**Skin contact** Prolonged and frequent contact may cause redness and irritation.

Eye contact Irritating to eyes.

## Toxicological information on ingredients.

## Permabond TA4630B

#### TETRAHYDROFURFURYL METHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD50

4.000.0

mg/kg)

**Species** Rat

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

Serious eye

Not irritating.

damage/irritation

Skin sensitisation

Skin sensitisation Sensitising.

Germ cell mutagenicity

**Genotoxicity - in vitro** Negative.

Carcinogenicity

**Carcinogenicity** No specific test data are available.

Reproductive toxicity

Reproductive toxicity -

Screening - NOAEL 120 mg/kg/day, Oral, Rat F1

fertility

Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 300 mg/kg, Oral, Rat

Aspiration hazard

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

2-ETHYLHEXYL METHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD₅o

2,000.1

mg/kg)

Species Rat

Acute toxicity - dermal

Notes (dermal LD50) No information available.

Acute toxicity - inhalation

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

Skin corrosion/irritation

Human skin model test Not irritating.

Serious eye damage/irritation

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Serious eye

Not irritating.

damage/irritation

Skin sensitisation

**Skin sensitisation** Local Lymph Node Assay (LLNA) - Mouse: Not sensitising.

Germ cell mutagenicity

**Genotoxicity - in vitro**Chromosome aberration: Negative.

Carcinogenicity

Carcinogenicity NOAEC >=2.05 mg/l, Inhalation, Rat

Reproductive toxicity

Reproductive toxicity -

fertility

Screening - NOAEL 300 mg/kg/day, Oral, Rat F1

Reproductive toxicity -

development

Developmental toxicity: - LOAEL: 1000 mg/kg/day, Oral, Rat

Specific target organ toxicity - single exposure

STOT - single exposure Not available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not available.

Aspiration hazard

Aspiration hazard Not available.

2-DIMETHYLAMINOETHYL METHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD50

2,000.0

mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,000.0

mg/kg)

Species Rat

Skin corrosion/irritation

**Skin corrosion/irritation** Corrosive to skin.

Serious eye damage/irritation

Serious eye Corrosive Possible risk of irreversible effects.

damage/irritation

Skin sensitisation

Skin sensitisation Sensitising.

Germ cell mutagenicity

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

Carcinogenicity

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Carcinogenicity No specific test data are available.

Aspiration hazard

Aspiration hazard Not applicable.

METHYL METHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

5,000.0

Rat **Species** 

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 5,000.0

mg/kg)

**Species** Rat

Acute toxicity - inhalation

Acute toxicity inhalation

29.8

(LC50 vapours mg/l)

**Species** Rat

Skin corrosion/irritation

Skin corrosion/irritation Not irritating. Prolonged skin contact may cause temporary irritation.

Serious eye damage/irritation

Serious eye

damage/irritation

Not irritating.

Respiratory sensitisation

Respiratory sensitisation Mouse: Sensitising.

Skin sensitisation

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

Germ cell mutagenicity

Genotoxicity - in vitro Inconclusive.

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

Carcinogenicity

Carcinogenicity CMR: no

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

Reproductive toxicity

Reproductive toxicity -

fertility

No evidence of reproductive toxicity in animal studies.

Reproductive toxicity -

No evidence of reproductive toxicity in animal studies. non-teratogenic, not

development embryotoxic

Specific target organ toxicity - single exposure

**Target organs** Respiratory tract Irritation.

#### Permabond TA4630B

Specific target organ toxicity - repeated exposure

**Target organs** No specific target organs known.

Aspiration hazard

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

**SECTION 12: Ecological information** 

**Ecotoxicity** Harmful to aquatic life with long lasting effects. Avoid release 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.

TETRAHYDROFURFURYL METHACRYLATE

Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 34.7 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic EC<sub>50</sub>, 72 hours: >100 mg/l, Desmodesmus subspicatus plants NOEC, 72 hours: >100 mg/l, Desmodesmus subspicatus

Chronic aquatic toxicity

Chronic toxicity - aquatic NOEC, 21 days: 37.2 mg/l, Daphnia magna

invertebrates

2-ETHYLHEXYL METHACRYLATE

Acute aquatic toxicity

Acute toxicity - fish EC<sub>50</sub>, 96 hours: 2.78 mg/l, Oryzias latipes (Red killifish)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 4.56 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: 7.68 mg/l, Selenastrum capricornutum NOEC, 72 hours: 0.28 mg/l, Selenastrum capricornutum

Acute toxicity - microorganisms

NOEC, 28 days: 100 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - aquatic

NOEC, 21 days: 0.11 mg/l, Daphnia magna

invertebrates

2-DIMETHYLAMINOETHYL METHACRYLATE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 19.1 mg/l, Oryzias latipes (Red killifish)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 33 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: 69.7 mg/l, Selenastrum capricornutum

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Chronic aquatic toxicity

Chronic toxicity - aquatic

invertebrates

NOEC, 21 days: 4.35 mg/l, Daphnia magna

METHYL METHACRYLATE

Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: > 79 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 69 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

NOEC, 72 hours: > 110 mg/l, Selenastrum capricornutum EC₅o, 72 hours: > 100 mg/l, Selenastrum capricornutum

Acute toxicity microorganisms EC<sub>20</sub>, 30 minutes: 150 - 200 mg/l, Activated sludge

Chronic aquatic toxicity

life stage

Chronic toxicity - fish early NOEC, 35 days: 9.4 mg/l, Danio rerio (Zebrafish)

Chronic toxicity - aquatic

invertebrates

NOEC, 21 days: 37 mg/l, Daphnia magna

## 12.2. Persistence and degradability

Persistence and degradability No data available.

Ecological information on ingredients.

TETRAHYDROFURFURYL METHACRYLATE

Persistence and

degradability

The product is readily biodegradable.

Biodegradation - 75%: 28 days

2-ETHYLHEXYL METHACRYLATE

Biodegradation Water - Degradation 88%: 28 days

2-DIMETHYLAMINOETHYL METHACRYLATE

Persistence and

degradability

The product is readily biodegradable.

METHYL METHACRYLATE

Biodegradation Water - Degradation 94%: 14 days

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not available.

12.4. Mobility in soil

Mobility No data available.

## Permabond TA4630B

#### 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

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 28/10/2020

Revision 2

Supersedes date 23/07/2020

Hazard statements in full H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H360D May damage the unborn child.

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.