

# SAFETY DATA SHEET Permabond TA4246

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

#### 1.1. Product identifier

Product name Permabond TA4246

## 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 UK +44 (0)1962 711 661 USA 0800 640 7599 Asia +86 (0)21 5773 4913

## SECTION 2: Hazards identification

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

Classification (EC 1272/2008)

**Physical hazards** Flam. Liq. 2 - H225

**Health hazards** Skin Corr. 1A - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 STOT SE 3 - H335

**Environmental hazards** Aquatic Chronic 3 - H412

## 2.2. Label elements

#### **Pictogram**







Signal word

Danger

**Hazard statements** H225 Highly flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P280 Wear protective gloves, eye and face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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.

Supplemental label

information

EUH205 Contains epoxy constituents. May produce an allergic reaction.

Contains METHYL METHACRYLATE, METHACRYLIC ACID, EPOXY RESIN (Number average MW

<= 700)

Supplementary precautionary

statements

P243 Take action to prevent static discharges.

P264 Wash contaminated skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

P403+P235 Store in a well-ventilated place. Keep cool.

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

## SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

METHYL METHACRYLATE 30-60%

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

METHACRYLIC ACID 5-10% CAS number: 79-41-4 EC number: 201-204-4 REACH registration number: 01-2119463884-26-XXXX

Classification

Acute Tox. 4 - H302 Acute Tox. 3 - H311 Acute Tox. 4 - H332 Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335

EPOXY RESIN (Number average MW <= 700) 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

**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 Eve 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 if any discomfort continues.

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. Rinse immediately with plenty of

water for 15 minutes holding the eyelids open. Get medical attention.

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

**Inhalation** Irritating to respiratory system.

**Skin contact** Chemical burns. 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.

#### 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

Specific hazards Flammable liquid and vapour. Vapours are heavier than air and may travel along the floor and

accumulate in the bottom of containers. Vapours may be ignited by a spark, a hot surface or

an ember.

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** Eliminate all sources of ignition. Ensure adequate ventilation of the working area. Do not

breathe vapour. Wear protective clothing as described in Section 8 of this safety data sheet.

# 6.2. Environmental precautions

**Environmental precautions** Avoid the spillage or runoff entering drains, sewers or watercourses.

#### 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. Use in a well ventilated area. Do not ingest or inhale. Keep

away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Take precautionary measures against static discharges.

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

Storage precautions Keep container tightly closed, in a cool, well ventilated place. Keep container dry. Store in

closed original container 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

#### 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>

#### **METHACRYLIC ACID**

Long-term exposure limit (8-hour TWA): WEL 20 ppm 72 mg/m³ Short-term exposure limit (15-minute): WEL 40 ppm 143 mg/m³ WEL = Workplace Exposure Limit

# 8.2. Exposure controls

#### Protective equipment







Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. 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:  $\geq 0.4$  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. Promptly remove any clothing that becomes contaminated. 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.

## **SECTION 9: Physical and Chemical Properties**

# 9.1. Information on basic physical and chemical properties

Appearance Viscous liquid.

Colour Amber.



Odour Pungent. Acrylic

Odour threshold Not available.

pH Not relevant.

Melting point Not available.

Initial boiling point and range ~100°C

Flash point 11°C

**Evaporation rate** Not available.

Upper/lower flammability or

explosive limits

Not available.

Vapour pressure 28 mm Hg

Vapour density 3.46

Relative density 1.0

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

**Auto-ignition temperature** Not available.

Viscosity ≈23000 mPa s @ 23°C

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. Strong acids.

Strong alkalis.

10.2. Chemical stability

**Stability** Stable at normal ambient temperatures.

## 10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

products

There are no known reactivity hazards associated with this product. Reactions with the following materials may generate heat: Amines. Organic peroxides/hydroperoxides.

10.4. Conditions to avoid

Conditions to avoid Take precautionary measures against static discharges. Avoid heat, flames and other sources

of ignition.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

Hazardous decomposition The

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.

Inhalation

Eye contact

May cause respiratory system irritation.

Skin contact

Causes serious eye damage.

Causes burns.

Toxicological information on ingredients.

# METHYL METHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀

mg/kg)

5,000.0

Species Rat

**ATE oral (mg/kg)** 5,000.0

Acute toxicity - dermal

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

mg/kg)

mg/l)

Species Rat

**ATE dermal (mg/kg)** 5,000.0

Acute toxicity - inhalation

Acute toxicity inhalation 29.8

(LC50 vapours mg/l)

Species Rat

ATE inhalation (vapours

.

29.8

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

Inconclusive. Genotoxicity - in vitro

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 -

development

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

embryotoxic

Specific target organ toxicity - single exposure

**Target organs** Respiratory tract Irritation.

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.

METHACRYLIC ACID

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

1.320.0

**Species** Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 1,000.0

mg/kg)

**Species** Rabbit

ATE dermal (mg/kg) 1,000.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC<sub>50</sub> vapours mg/l)

7.1

**Species** Rat

ATE inhalation (vapours

11.0

mg/l)

Skin corrosion/irritation

Dose: Method: OECD 404, 3 minutes, Rabbit Corrosive. Animal data

Serious eye damage/irritation

Serious eye Meth

damage/irritation

Method: OECD 405, Rabbit Corrosive

Respiratory sensitisation

Respiratory sensitisation Guinea pig: Not sensitising. Method: various test systems

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

Germ cell mutagenicity

**Genotoxicity - in vitro**Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity CMR: no

Reproductive toxicity

Reproductive toxicity -

fertility

No evidence of reproductive toxicity in animal studies.

Reproductive toxicity -

development

Non-teratogenic, not embryotoxic

Specific target organ toxicity - single exposure

**Target organs** Respiratory tract Irritating.

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.

EPOXY RESIN (Number average MW <= 700)

Acute toxicity - oral

Acute toxicity oral (LD50

11,400.0

mg/kg)

Species Rat

**ATE oral (mg/kg)** 11,400.0

Acute toxicity - dermal

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

mg/kg)

**Species** Rabbit

ATE dermal (mg/kg) 2,000.1

Acute toxicity - inhalation

Notes (inhalation LC50) 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.

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

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.

#### **CUMENE HYDROPEROXIDE**

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

**Species** 

Rat

328.0

ATE oral (mg/kg)

328.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 1,200.0

mg/kg)

**Species** Rat

ATE dermal (mg/kg) 1,200.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC50 dust/mist mg/l)

1.37

0.5

**Species** Rat

ATE inhalation

(dusts/mists mg/l)



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 -

No specific test data are available.

fertility

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.

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.

## METHYL METHACRYLATE

Acute aquatic toxicity

Acute toxicity - fish LC₅o, 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  $EC_{50}$ , 72 hours: > 100 mg/l, Selenastrum capricornutum

www.glueonline.co.uk

Acute toxicity -

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

microorganisms

Chronic aquatic toxicity

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

life stage

Chronic toxicity - aquatic

invertebrates

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

METHACRYLIC ACID

Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 85 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: > 130 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: 45 mg/l, Selenastrum capricornutum LOEC, 72 hours: 45 mg/l, Selenastrum capricornutum

Acute toxicity - EC<sub>50</sub>, 17 hours: 270 mg/l, Pseudomonas putida

microorganisms

Chronic aquatic toxicity

Chronic toxicity - fish early NOEC, 35 days: 10 mg/l, Danio rerio (Zebrafish)

life stage

Chronic toxicity - aquatic

invertebrates

NOEC, 21 days: 53 mg/l, Daphnia magna

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

EC<sub>50</sub>, 48 hours: 9.1 mg/l, Selenastrum capricornutum

Acute toxicity -

microorganisms

IC<sub>50</sub>, 3 hours: > 100 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - aquatic

invertebrates

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

**CUMENE HYDROPEROXIDE** 

Acute aquatic toxicity

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

12.2. Persistence and degradability

Persistence and degradability The product is not readily biodegradable.

Ecological information on ingredients.



#### METHYL METHACRYLATE

**Biodegradation** Water - Degradation 94%: 14 days

**METHACRYLIC ACID** 

Biodegradation Water - Degradation 86%: 28 days

EPOXY RESIN (Number average MW <= 700)

Biodegradation Water - 6 - 12%: 28 days

**CUMENE HYDROPEROXIDE** 

**Biodegradation** The substance is readily biodegradable.

12.3. Bioaccumulative potential

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

Ecological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

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

coefficient

Water - log Koc: 2.65 @ 20°C

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

/B

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



#### 14.1. UN number

2924

#### 14.2. UN proper shipping name

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (contains Methylmethacrylate and Methacrylic Acid)

#### 14.3. Transport hazard class(es)

3(8)

#### Transport labels





#### 14.4. Packing group

Ш

#### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

#### 14.6. Special precautions for user

EmS F-E, S-C

Hazard Identification Number 338 Highly flammabe liquid, corrosive.

(ADR/RID)

Tunnel restriction code (D/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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009

No. 716).

EH40/2005 Workplace exposure limits.

Health and Safety at Work etc. Act 1974 (as amended).

**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 01/11/2017

Revision 6

Supersedes date 05/07/2017

Hazard statements in full H225 Highly flammable liquid and vapour.

H242 Heating may cause a fire. H302 Harmful if swallowed. H311 Toxic in contact with skin. 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.

H331 Toxic if inhaled. H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects. 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.