

SAFETY DATA SHEET Permabond TA437

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

1.1. Product identifier

Product name Permabond TA437

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

Environmental hazards Aquatic Chronic 3 - H412

2.2. Label elements

Pictogram



Signal word Warning

Hazard statements H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

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Precautionary statements 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 2-PHENOXYETHYL METHACRYLATE, 2-HYDROXYETHYL METHACRYLATE, N,N-(m-

PHENYLENE) DIMALEIMIDE

Supplementary precautionary

statements

P261 Avoid breathing vapour/ spray.

P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.

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. P362+P364 Take off contaminated clothing and wash it before reuse. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

local regulations.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

2-PHENOXYETHYL METHACRYLATE 10-30%

CAS number: 10595-06-9 EC number: 234-201-1 REACH registration number: 01-

2120752383-55-XXXX

Classification

Skin Sens. 1A - H317 Aquatic Chronic 2 - H411

2-HYDROXYETHYL METHACRYLATE 10-30%

CAS number: 868-77-9 EC number: 212-782-2 REACH registration number: 01-

2119490169-29-XXXX

Classification

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

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 N,N-(m-PHENYLENE)DIMALEIMIDE

 CAS number: 3006-93-7
 EC number: 221-112-8
 REACH registration number: 01-2120756106-57-XXXX

Classification
Acute Tox. 4 - H302
Acute Tox. 2 - H330

 CUMENE HYDROPEROXIDE
 1-< 2.5%</th>

 CAS number: 80-15-9
 EC number: 201-254-7
 REACH registration number: 01-2119475796-19-XXXX

Classification
Org. Perox. E - H242
Acute Tox. 4 - H302
Acute Tox. 4 - H312
Acute Tox. 3 - H331
Skin Corr. 1B - H314
Eye Dam. 1 - H318
STOT SE 3 - H335
STOT RE 2 - H373
Aquatic Chronic 2 - H411

Skin Sens. 1 - H317 Aquatic Chronic 3 - H412

 ETHANEDIOL
 <1%</th>

 CAS number: 107-21-1
 EC number: 203-473-3
 REACH registration number: 01-2119456816-28-XXXX

Classification
Acute Tox. 4 - H302
STOT RE 2 - H373

ACRYLIC ACID <1% CAS number: 79-10-7 EC number: 201-177-9 REACH registration number: 01-2119452449-31-XXXX M factor (Acute) = 1 Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335 Aquatic Acute 1 - H400

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

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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

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least Eye contact

15 minutes. Get medical attention.

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

Skin contact Skin irritation. Mild dermatitis, allergic skin rash.

Eye contact Causes serious eye damage.

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

Notes for the doctor No specific recommendations. Treat symptomatically.

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

products

Burning produces irritating, toxic and obnoxious fumes. Carbon monoxide, carbon dioxide,

and unknown hydrocarbons. Oxides of nitrogen.

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

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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

ETHANEDIOL

Long-term exposure limit (8-hour TWA): WEL 20 ppm 52 mg/m³ vapour Short-term exposure limit (15-minute): WEL 40 ppm 104 mg/m³ vapour

Sk

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulate

Sk

WEL = Workplace Exposure Limit Sk = Can be absorbed through the skin.

2-PHENOXYETHYL METHACRYLATE (CAS: 10595-06-9)

DNEL Workers - Inhalation; Long term systemic effects: 12 mg/m³

Workers - Inhalation; Long term local effects: 84 mg/m³

Workers - Dermal; Long term systemic effects: 3.5 mg/kg/day

PNEC Fresh water; 14.2 μg/l

Marine water; 1.42 µg/l

STP; 1.77 mg/l

Sediment (Freshwater); 0.665 mg/kg Sediment (Marinewater); 0.067 mg/kg

Soil; 0.125 mg/kg

2-HYDROXYETHYL METHACRYLATE (CAS: 868-77-9)

DNEL Workers, Industry - Inhalation; Long term systemic effects: 4.9 mg/m³

Workers, Industry - Dermal; Long term systemic effects: 1.3 mg/kg/day

PNEC Workers, Industry - Water; Long term 0.482 mg/l

Workers, Industry - Soil; Long term 0.476 mg/kg Workers, Industry - STP; Long term 10 mg/l Workers, Industry - Fresh water; 3.79 mg/kg

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

DNEL Workers - Inhalation; Long term systemic effects: 0.176 mg/m³

Workers - Dermal; Long term systemic effects: 0.05 mg/kg/day

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PNEC Fresh water; 0.01 mg/l

Marine water; 0.001 mg/l

STP; 0.051 mg/l

Sediment (Freshwater); 0.035 mg/kg Sediment (Marinewater); 0.035 mg/kg

Soil; 0.063 mg/kg

CUMENE HYDROPEROXIDE (CAS: 80-15-9)

DNEL Workers - Inhalation; Long term systemic effects: 6 mg/m³

PNEC Workers - Fresh water; 0.0031 mg/l

Workers - Marine water; 0.00031 mg/l Workers - Intermittent release; 0.031 mg/l Workers, Industry - Soil; 1.2 mg/kg

Workers - STP; 0.35 mg/l

Workers - Sediment (Freshwater); 0.023 mg/kg Workers - Sediment (Marinewater); 0.0023 mg/kg

Workers - Soil; 0.0029 mg/kg

ACRYLIC ACID (CAS: 79-10-7)

DNEL Workers - Inhalation; Long term local effects: 30 mg/m³

Workers - Dermal; Short term local effects: 1 mg/cm²

PNEC Fresh water; 0.003 mg/l

Intermittent release; 0.001 mg/l

Marine water; 0 mg/l STP; 0.9 mg/l

Sediment (Freshwater); 0.024 mg/kg/day Sediment (Marinewater); 0.002 mg/kg/day

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

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.

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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 Viscous liquid.

Colour Orange.

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 1.1

Solubility(ies) Slightly soluble in water. Miscible with the following materials: acetone

Partition coefficient Not available.

Auto-ignition temperature Not available.

Decomposition Temperature Not available.

Viscosity ≈120000 mPa s @ 23°C Thixotropic

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

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Possibility of hazardous

reactions

products

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

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 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. However, if during use, there is a possibility that an aerosol mist may be

formed then appropriate measures must be taken to exclude exposure by inhalation.

IngestionNo harmful effects expected from quantities likely to be ingested by accident.

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

Eye contact Causes serious eye damage.

Toxicological information on ingredients.

2-PHENOXYETHYL METHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD₅o

5,000.0

mg/kg)

Species Rat

Acute toxicity - dermal

Notes (dermal LD₅o) No information available.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) No information available.

Skin corrosion/irritation

Skin corrosion/irritation Slightly irritating.

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Animal data Primary dermal irritation index: 0.25

Serious eye damage/irritation

Serious eye Slightly irritating.

damage/irritation

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Chromosome aberration: Negative.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity -

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

fertility

Reproductive toxicity -

development

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

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

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

Aspiration hazard

Aspiration hazard Not available.

2-HYDROXYETHYL METHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD50

5,000.0

mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 5,000.0

mg/kg)

Species Rabbit

Acute toxicity - inhalation

Notes (inhalation LC50) No information available.

Skin corrosion/irritation

Animal data Erythema/eschar score: Very slight erythema - barely perceptible (1). Not irritating.

Serious eye damage/irritation

Serious eye Moderately irritating.

damage/irritation

Respiratory sensitisation

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Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Sensitising.

Germ cell mutagenicity

Genotoxicity - in vitroConclusive data but not sufficient for classification.

Genotoxicity - in vivo Chromosome aberration: Negative.

Carcinogenicity

Carcinogenicity No specific test data are available.

Reproductive toxicity

Reproductive toxicity -

fertility

Screening - NOAEL >=1000 mg/kg/day, Oral, Rat F1

Reproductive toxicity -

development

Developmental toxicity: - NOAEL: >=1000 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 No specific test data are available.

Aspiration hazard

Aspiration hazard Not applicable.

N,N-(m-PHENYLENE)DIMALEIMIDE

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

500.0

Species Rat

Acute toxicity - inhalation

Acute toxicity inhalation

0.055

(LC₅₀ dust/mist mg/l)

Species Rat

Skin corrosion/irritation

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

Serious eye damage/irritation

Serious eye Not irritating.

damage/irritation

Skin sensitisation

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

Germ cell mutagenicity

Genotoxicity - in vitroGene mutation: Negative.

Carcinogenicity

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Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity -

Screening - NOAEL 240 mg/kg/day, Oral, Rat P

fertility

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 No information available.

328.0

Rat

CUMENE HYDROPEROXIDE

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

Species

-

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 1,200.0

mg/kg)

Species Rat

Acute toxicity - inhalation

Acute toxicity inhalation 1.37

(LC₅₀ dust/mist mg/l)

Species Rat

Skin corrosion/irritation

Animal data Highly irritating.

Serious eye damage/irritation

Serious eye Irritating to eyes.

damage/irritation

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

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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.

ACRYLIC ACID

Acute toxicity - oral

Acute toxicity oral (LD₅o

1,405.0

mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.0

mg/kg)

Species

Rabbit

Species

Acute toxicity - inhalation

Acute toxicity inhalation

(LC50 dust/mist mg/l)

Rat

3.6

Skin corrosion/irritation

Animal data Rabbit Highly corrosive.

Serious eye damage/irritation

Serious eye

Rabbit Corrosive

damage/irritation

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative.

Genotoxicity - in vivo Chromosome aberration: Negative.

Carcinogenicity

Carcinogenicity NOAEL >=78 mg/kg/day, Oral, Rat

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

Reproductive toxicity

Reproductive toxicity -

- NOAEL 460 mg/l, Oral, Rat P, F1

fertility

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Reproductive toxicity -

development

Fetotoxicity: - NOAEC: >= 0.673 mg/l, Inhalation, 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.

SECTION 12: Ecological Information

Ecotoxicity The product is not expected to be hazardous 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.

2-PHENOXYETHYL METHACRYLATE

Acute aquatic toxicity

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

Acute toxicity - aquatic

invertebrates

LC₅₀, 48 hours: 1.21 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

LC₅₀, 72 hours: 4.44 mg/l, Desmodesmus subspicatus

Acute toxicity microorganisms

EC₅₀, 180 minutes: 177 mg/l, Activated sludge

2-HYDROXYETHYL METHACRYLATE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: > 100 mg/l, Oryzias latipes (Red killifish)

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 380 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅₀, 72 hours: 836 mg/l, Selenastrum capricornutum NOEC, 72 hours: 400 mg/l, Selenastrum capricornutum

Acute toxicity -

microorganisms

EC₅₀, 16 hours: > 3000 mg/l, Pseudomonas fluorescens

Chronic aquatic toxicity

Chronic toxicity - aquatic

invertebrates

NOEC, 21 days: 24.1 mg/l, Daphnia magna

N,N-(m-PHENYLENE)DIMALEIMIDE

Acute aquatic toxicity

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Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 31.6 mg/l, Daphnia magna

CUMENE HYDROPEROXIDE

Acute aquatic toxicity

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

ACRYLIC ACID

Acute aquatic toxicity

LE(C)₅₀ $0.1 < L(E)C50 \le 1$

M factor (Acute)

Acute toxicity - fish LC₅₀, 96 hours: 222 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic

invertebrates

LC₅₀, 24 hours: 270 mg/l, Daphnia magna EC₅₀, 48 hours: 95 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅₀, 72 hours: 0.04 mg/l, Desmodesmus subspicatus EC₅₀, 96 hours: 0.17 mg/l, Pseudokirchneriella subcapitata

Acute toxicity - E

microorganisms

EC₂₀, 30 minutes: 900 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - aquatic

invertebrates

NOEC, 21 days: 19 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability No data available.

Ecological information on ingredients.

2-HYDROXYETHYL METHACRYLATE

Biodegradation Water - Degradation 84%: 28 days

CUMENE HYDROPEROXIDE

Biodegradation The substance is readily biodegradable.

ACRYLIC ACID

Biodegradation Water - Degradation 81%: 28 days

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not available.

Ecological information on ingredients.

2-HYDROXYETHYL METHACRYLATE

Bioaccumulative potential BCF: 1.34 - 1.54,

ACRYLIC ACID

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Partition coefficient log Kow: 0.46

12.4. Mobility in soil

Mobility No data available.

Ecological information on ingredients.

2-HYDROXYETHYL METHACRYLATE

Adsorption/desorption

coefficient

Water - Koc: 42.7 @ 20°C

ACRYLIC ACID

Surface tension 69.6 mN/m @ 20°C

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 methodsDo 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

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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 12/07/2018

Revision 5

Supersedes date 30/06/2017

Hazard statements in full H226 Flammable liquid and vapour.

H242 Heating may cause a fire. 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.

H330 Fatal if inhaled. H331 Toxic if inhaled. H332 Harmful if inhaled.

H335 May cause respiratory irritation.

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

H400 Very toxic to aquatic life.

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.