EPDM Membrane Adhesive

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name

EPDM Membrane Adhesive

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

Identified uses

Adhesive. Sealant.

Uses advised against

Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Supplier

Premier Sealant Systems Ltd.
Mercia Way,
Foxhills Industrial Park,
Scunthorpe,
North Lincolnshire,
DN15 8RE
Tel. 01724 864 100

1.4. Emergency telephone number

Emergency telephone

NPIS (National Poisons Information Service): 0344 892 0111 (for medical professionals only). For medical advice, members of the public should contact NHS 111 in England: 111; NHS 24 in Scotland: 111; NHS Direct in Wales: 111 or 0845 4647. In Northern Ireland: contact your local GP or pharmacist.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards

Not Classified

Health hazards

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

Environmental hazards

Not Classified

2.2. Label elements

Hazard pictograms

Signal word
Warning

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

Precautionary statements
P261 Avoid breathing vapours.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.

Contains
Trimethoxyvinylsilane, N-(3-(Trimethoxysilyl)propyl)ethylenediamine, Dioctylbis(pentane-2, 4-dionato-O,O')tin

2.3. Other hazards
This product does not contain any substances classified as PBT or vPvB. Curing process releases a small amount of methanol.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Trimethoxyvinylsilane
CAS number: 2768-02-7 | EC number: 220-449-8 | REACH registration number: 01-2119513215-52-XXXX
<2%

Classification
Flam. Liq. 2 - H225
Acute Tox. 4 - H332
Skin Sens. 1B - H317

N-(3-(Trimethoxysilyl)propyl)ethylenediamine
CAS number: 1760-24-3 | EC number: 217-164-6 | REACH registration number: 01-2119970215-39-XXXX
<2%

Classification
Acute Tox. 4 - H332
Eye Dam. 1 - H318
Skin Sens. 1B - H317
STOT RE 2 - H373
STOT SE 3 - H335, H336

Dioctylbis(pentane-2,4-dionato-O,O')tin
CAS number: 54068-28-9 EC number: 483-270-6 REACH registration number: 01-0000020199-67-XXXX
< 1%
Classification
Skin Sens. 1 - H317
STOT SE 2 - H371

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate
CAS number: 52829-07-9 EC number: 258-207-9 REACH registration number: 01-2119537297-32-XXXX
< 1%
Classification
Eye Dam. 1 - H318
Repr. 2 - H361f
Aquatic Acute 1 - H400
Aquatic Chronic 2 - H411

Methanol
CAS number: 67-56-1 EC number: 200-659-6 REACH registration number: 01-2119433307-44-XXXX
< 0.1%
Classification
Flam. Liq. 2 - H225
Acute Tox. 3 - H301
Acute Tox. 3 - H311
Acute Tox. 3 - H331
STOT SE 1 - H370

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

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information
Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.

Inhalation
Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.

Ingestion
Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.

Skin contact
It is important to remove the substance from the skin immediately. In the event of any sensitisation symptoms developing, ensure further exposure is avoided. Remove contamination with soap and water or recognised skin cleansing agent. Get medical attention if symptoms are severe or persist after washing.

Eye contact
Rinse with water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Get medical attention if any discomfort continues.

Protection of first aiders

First aid personnel should wear appropriate protective equipment during any rescue.

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

General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Curing process may release a small amount of methanol which is irritating to mucous membranes and has skin drying and narcotic effects.

Inhalation

No specific symptoms known.

Ingestion

May cause sensitisation or allergic reactions in sensitive individuals.

Skin contact

May cause skin sensitisation or allergic reactions in sensitive individuals.

Eye contact

Causes serious eye irritation.

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

Notes for the doctor

Treat symptomatically. May cause sensitisation or allergic reactions in sensitive individuals.

Specific treatments

Antidote for methanol poisoning is ethanol.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

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

None known.

Hazardous combustion products

Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Oxides of carbon. Oxides of nitrogen.

5.3. Advice for firefighters

Protective actions during firefighting

Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

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. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Avoid contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions

Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Collect and place in suitable waste disposal containers and seal securely. Clean contaminated objects and areas thoroughly, observing environmental regulations. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Usage precautions

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

Storage class

Combustible solids that can not be assigned to any of the aforementioned LGK.

7.3. Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

Methanol

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³
Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³ Sk
WEL = Workplace Exposure Limit.
Sk = Can be absorbed through the skin.

Trimethoxyvinylsilane (CAS: 2768-02-7)

DNEL

Workers - Inhalation; Long term systemic effects: 27.6 mg/m³
Workers - Dermal; Long term systemic effects: 3.9 mg/kg/day

N-(3-(Trimethoxysilyl)propyl)ethylenediamine (CAS: 1760-24-3)

PNEC

Fresh water; 0.062 mg/l
marine water; 0.006 mg/l
STP; 25 mg/l
Sediment (Freshwater); 0.22 mg/kg
Sediment (Marinewater); 0.022 mg/kg

Dioctylbis(pentane-2,4-dionato-O,O')tin (CAS: 54068-28-9)

DNEL

Workers - Inhalation; Long term systemic effects: 84 mg/m³
Workers - Inhalation; Short term systemic effects: 84 mg/m³
Workers - Inhalation; Long term local effects: 0.091 mg/m³
Workers - Inhalation; Short term local effects: 0.091 mg/m³
Workers - Dermal; Long term systemic effects: 0.07 mg/kg/day

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (CAS: 52829-07-9)

DNEL

Workers - Inhalation; Long term systemic effects: 1.27 mg/m³
Workers - Dermal; Long term systemic effects: 1.8 mg/kg/day

PNEC

Fresh water; 0.004 mg/l
Intermittent release, Fresh water; 0.007 mg/l
marine water; 0.38 µg/l
STP; 1 mg/l
Sediment (Freshwater); 5.9 mg/kg
Sediment (Marinewater); 0.59 mg/kg
Soil; 1.18 mg/kg

Methanol (CAS: 67-56-1)

DNEL

Workers - Inhalation; Long term systemic effects: 130 mg/m³
Workers - Inhalation; Short term systemic effects: 130 mg/m³
Workers - Inhalation; Long term local effects: 130 mg/m³

Workers - Inhalation; Short term local effects: 130 mg/m³
Workers - Dermal; Long term systemic effects: 20 mg/kg/day
Workers - Dermal; Short term systemic effects: 20 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

Wear tight-fitting, chemical splash goggles or face shield.

Hand protection

It is recommended that chemical-resistant, impervious gloves are worn. 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. To protect hands from chemicals, gloves should comply with European Standard EN374. 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. Frequent changes are recommended.

Other skin and body protection

May cause skin sensitisation or allergic reactions in sensitive individuals. Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures

Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

Respiratory protection

No specific requirements are anticipated under normal conditions of use. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

Environmental exposure controls

Keep container tightly sealed when not in use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance

Paste.

Colour

Black

Odour

No characteristic odour.

Odour threshold
No information available.
pH
Technically not feasible.
Melting point
No information available.
Initial boiling point and range
No information available.
Flash point
Not applicable.
Evaporation rate
No information available.
Evaporation factor
No information available.
Flammability (solid, gas)
No information available.
Upper/lower flammability or explosive limits
No information available.
Vapour pressure
No information available.
Vapour density
No information available.
Relative density
1.44 - 1.54 @ 20°C
Bulk density
Insoluble in water.
Solubility(ies)
No information available.
Partition coefficient
No information available.
Auto-ignition temperature
~400°C
Viscosity
6,000 - 10,000 P @ 20°C
Explosive properties
Not considered to be explosive.
Oxidising properties
The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.

9.2. Other information

Other information
Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity
See the other subsections of this section for further details.

10.2. Chemical stability

Stability

Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions

No potentially hazardous reactions known. Curing process releases a small amount of methanol.

10.4. Conditions to avoid

Conditions to avoid

Avoid exposure to high temperatures or direct sunlight.

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

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO). Nitrous gases (NOx).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD_{50})

Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD_{50})

Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC_{50})

Based on available data the classification criteria are not met.

ATE inhalation (vapours mg/l)

1,190.48

ATE inhalation (dusts/mists mg/l)

129.34

Skin corrosion/irritation

Animal data

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation

Eye Irrit. 2 Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation

Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation

Skin Sens. 1B May cause an allergic skin reaction.

Germ cell mutagenicity

Genotoxicity - in vitro

Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility

Based on available data the classification criteria are not met.

Reproductive toxicity -development

Based on available data the classification criteria are not met.

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

Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard

Not relevant. Solid.

General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Curing process releases a small amount of methanol. Methanol irritates mucous membranes, and has skin drying and narcotic effects.

Inhalation

No specific symptoms known.

Ingestion

May cause sensitisation or allergic reactions in sensitive individuals.

Skin contact

May cause skin sensitisation or allergic reactions in sensitive individuals. Prolonged contact may cause dryness of the skin.

Eye contact

Causes serious eye irritation.

Route of exposure

Ingestion Inhalation Skin and/or eye contact

Target organs

No specific target organs known.

Medical considerations

Skin disorders and allergies.

Toxicological information on ingredients.

Trimethoxyvinylsilane

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)

6,899.0

Species
Rat
Notes (oral LD_{50})
LD_{50} 7120 mg/kg, Oral, Rat
ATE oral (mg/kg)
6,899.0

Acute toxicity - dermal
Acute toxicity dermal (LD_{50} mg/kg)
3,158.0
Species
Rabbit
Notes (dermal LD_{50})
LD_{50} 3434 mg/kg, Dermal, Rabbit
ATE dermal (mg/kg)
3,158.0

Acute toxicity - inhalation
Summary
Harmful if inhaled.
Acute toxicity inhalation (LC_{50} vapours mg/l)
16.8
Species
Rat
ATE inhalation (vapours mg/l)
16.8

Skin sensitisation
Summary
Skin Sens. 1B May cause an allergic skin reaction.

N-(3-(Trimethoxysilyl)propyl)ethylenediamine

Acute toxicity - oral
Acute toxicity oral (LD_{50} mg/kg)
2,295.0
Species
Rat
ATE oral (mg/kg)
2,295.0

Acute toxicity - dermal
Acute toxicity dermal (LD_{50} mg/kg)
LD_{50} >2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation
Acute toxicity inhalation (LC_{50} dust/mist mg/l)
1.49
Species
Rat
ATE inhalation (vapours mg/l)
1.49

Serious eye damage/irritation
Summary
Causes serious eye damage.

Serious eye damage/irritation
Causes serious eye damage. Rabbit

Skin sensitisation
Summary
May cause an allergic skin reaction.
Skin sensitisation
Guinea pig maximization test (GPMT) - Guinea pig: Sensitising.

Specific target organ toxicity - single exposure
STOT - repeated exposure
STOT RE 2 May cause damage to organs (Respiratory tract) through prolonged or repeated exposure.
Target organs
Respiratory tract

Dioctylbis(pentane-2,4-dionato-O,O')tin

Acute toxicity - oral
Acute toxicity oral (LD_{50} mg/kg)
2,500.0
Species
Rat
ATE inhalation (dusts/mists mg/l)
2,500.0

Acute toxicity - dermal
Notes (dermal LD_{50})
LD_{50} >2000 mg/kg, Oral, Rat

Skin sensitisation
Summary
Skin Sens. 1B May cause an allergic skin reaction.
Skin sensitisation
Local Lymph Node Assay (LLNA) - Mouse: Sensitising.

Specific target organ toxicity - single exposure
Summary
STOT SE 2 May cause damage to organs (Immune system, Thymus) through prolonged or repeated exposure.
STOT - single exposure
NOAEL 1.8 mg/kg/day, Oral, Rat 7 days Read-across data.
Target organs
Immune system Thymus.

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

Acute toxicity - oral
Acute toxicity oral (LD_{50} mg/kg)
3,700.0
Species
Rat
ATE inhalation (dusts/mists mg/l)
3,700.0

Acute toxicity - dermal
Acute toxicity dermal (LD_{50} mg/kg)
3,170.0

Species
Rat
ATE dermal (mg/kg)
3,170.0

Serious eye damage/irritation

Summary
Causes serious eye damage.

Serious eye damage/irritation
Causes serious eye damage. Rabbit

Reproductive toxicity

Reproductive toxicity -fertility
Suspected of damaging fertility.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

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

Acute aquatic toxicity

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

Chronic aquatic toxicity

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

Ecological information on ingredients.

Trimethoxyvinylsilane

Acute aquatic toxicity

Acute toxicity - fish
LC_{50}, 96 hours: 191 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates
EC_{80}, 48 hours: 168.7 mg/l, Daphnia magna

Acute toxicity - aquatic plants
EC_{80}, 72 hours: >89 mg/l, Freshwater algae

N-(3-(Trimethoxysilyl)propyl)ethylenediamine

Acute aquatic toxicity

Acute toxicity - fish
LC_{80}, 96 hours: 597 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates
EC_{80}, 48 hours: 81 mg/l, Daphnia magna

Acute toxicity - aquatic plants
EC_{50}, 72 hours: 8.8 mg/l mg/l, Algae

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates

NOEC, 21 days: =/> 1 mg/l, Daphnia magna

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

Acute aquatic toxicity

$LE(C)_{50}$

0.1 < L(E)C50 ≤ 1

M factor (Acute)

1

Acute toxicity - fish

LC_{50}, 96 hours: 4.4 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity - aquatic invertebrates

LC_{50}, 48 hours: 8.58 mg/l, Daphnia magna

Acute toxicity - aquatic plants

EC_{50}, 72 hours: 0.705 mg/l, Pseudokirchneriella subcapitata

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates

NOEC, 21 days: 0.23 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability

The degradability of the product is not known.

Ecological information on ingredients.

Trimethoxyvinylsilane

Persistence and degradability

Not readily biodegradable.

N-(3-(Trimethoxysilyl)propyl)ethylenediamine

Persistence and degradability

The substance is readily biodegradable.

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

Persistence and degradability

Degradation 24%: 28 days

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation. Bioaccumulation is unlikely.

Partition coefficient

No information available.

Ecological information on ingredients.

Trimethoxyvinylsilane

Bioaccumulative potential

Bioaccumulation is unlikely.

N-(3-(Trimethoxysilyl)propyl)ethylenediamine
Bioaccumulative potential
Bioaccumulation is unlikely.
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate
Partition coefficientl
log Pow: 0.35

12.4. Mobility in soil

Mobility
No data available. The product is insoluble in water.

Ecological information on ingredients.

Trimethoxyvinylsilane
Adsorption/desorption coefficient
Expected to have a low potential for adsorption.

N-(3-(Trimethoxysilyl)propyl)ethylenediamine
Adsorption/desorption coefficient
- Koc: 0.2 @ 20°C

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate
Adsorption/desorption coefficient
Soil - Log Koc: 4.2 @ 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 is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Disposal methods
Collect and place in suitable waste disposal containers and seal securely.
Waste class
HP4 Irritant HP13 Sensitising The waste code classification is to be carried out according to the European Waste Catalogue (EWC). 08 04 09*

SECTION 14: TRANSPORT INFORMATION

General information

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required

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 Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

National regulations

Health and Safety at Work etc. Act 1974 (as amended).
Control of Substances Hazardous to Health Regulations 2002 (as amended).
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, UK SI 2019/720. The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020, UK SI 2020/1567.
The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, UK SI 2019/758, UK SI 2019/858 and UK SI 2019/1144. The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, UK SI 2020/1577.

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Commission Regulation (EU) No 2015/830 of 28 May 2015.

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).

Guidance

Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
IATA: International Air Transport Association.
ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
CAS: Chemical Abstracts Service.
ATE: Acute Toxicity Estimate.
LC_{50}: Lethal Concentration to 50 % of a test population.
LD_{50}: Lethal Dose to 50% of a test population (Median Lethal Dose).
EC_{50}: 50% of maximal Effective Concentration.
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations and acronyms

Eye Irrit. = Eye irritation
Skin Sens. = Skin sensitisation

Key literature references and sources for data

Source: European Chemicals Agency, http://echa.europa.eu/ SDS from supplier.

Classification procedures according to Regulation (EC) 1272/2008

Eye Irrit. 2 - H319: Skin Sens. 1B - H317: : Calculation method.

Training advice

Only trained personnel should use this material.

Revision comments

Revised sections: 1, 2, 3, 4, 5, 6, 7, 8. 9, 10, 11, 12, 13, 15, 16.

Revision date

25/03/2024

Revision

2

Supersedes date

09/02/2022

SDS number

n/a

SDS status

Approved.

Hazard statements in full

H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
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.
H361f Suspected of damaging fertility.
H370 Causes damage to organs .
H371 May cause damage to organs (Immune system, Thymus).
H373 May cause damage to organs (Respiratory tract) through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
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.