

Sikaflex®-276 PC-2

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

1.1 Product identifier

Trade name : Sikaflex[®]-276 PC-2

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

Product use : Sealant/adhesive

1.3 Details of the supplier of the safety data sheet

| Company name of supplier | : | Sika Limited Watchmead Welwyn Garden City |
|--------------------------|---|--|
| | | Hertfordshire. AL7 1BQ |
| Telephone | : | +44 (0)1707 394444 |
| Telefax | : | +44 (0)1707 329129 |
| E-mail address of person | : | EHS@uk.sika.com |
| responsible for the SDS | | |

1.4 Emergency telephone number

National Chemical Emergency Centre (NCEC) 24 Hour Emergency Telephone Number +44 870 190 6777

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Respiratory sensitisation, Category 1

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms::Image: Signal word::DangerHazard statements::H334May cause allergy or asthma symptoms or breathing difficulties if inhaled.Precautionary statements::Prevention:



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| | P261 P284 | Avoid breathing mist or vapours In case of inadequate ventilation atory protection. | |
| | Response: | | |
| | P304 + P340 | IF INHALED: Remove person to keep comfortable for breathing. | o fresh air and |
| | P342 + P311 | If experiencing respiratory symp POISON CENTER/ doctor. | otoms: Call a |
| | Disposal: | | |
| | P501 | Dispose of contents/container in with local regulation. | n accordance |

Hazardous components which must be listed on the label:

4,4'-methylenediphenyl diisocyanate 2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate Pentamethyl piperidylsebacate

Additional Labelling

EUH204 Contains isocyanates. May produce an allergic reaction.

"As from 24 August 2023 adequate training is required before industrial or professional use."

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.



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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| Chemical name | CAS-No. EC-No. Registration number | Classification | Concentration (% w/w) |
|--|--|--|--------------------------|
| 4,4'-methylenediphenyl diisocya- nate | 101-68-8 202-966-0 01-2119457014-47- XXXX | Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 \longrightarrow specific concentration limit Eye Irrit. 2; H319 >= 5 % STOT SE 3; H335 >= 5 % Skin Irrit. 2; H315 >= 5 % Resp. Sens. 1; H334 >= 0,1 % | >= 0,1 - < 1 |
| | | Acute toxicity esti- mate Acute inhalation tox- icity (dust/mist): 1,5 mg/l | |
| 2-ethyl-2-[[(1-oxoallyl)oxy]methyl]- 1,3-propanediyl diacrylate | 15625-89-5 239-701-3 01-2119489896-11- XXXX | Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | >= 0,025 - < 0,25 |
| | | M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 | |



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| Pentamethyl piperidylsebacate Contains: bis(1,2,2,6,6-pentamethyl-4- piperidyl) sebacate methyl 1,2,2,6,6-pentamethyl-4- piperidyl sebacate | 1065336-91-5 915-687-0 01-2119491304-40- XXXX | Skin Sens. 1A; H317 Repr. 2; H361f Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 | >= 0,025 - < 0,1 |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

| General advice | : Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. |
|---------------------------------|---|
| If inhaled | : Move to fresh air. Consult a physician after significant exposure. |
| In case of skin contact | Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician. |
| In case of eye contact | Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. |
| If swallowed | Do not induce vomiting without medical advice. Rinse mouth with water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. |
| 4.2 Most important symptoms and | d effects, both acute and delayed |
| Symptoms | : Asthmatic appearance Allergic reactions See Section 11 for more detailed information on health effects and symptoms. |
| Risks | : sensitising effects |
| | May cause allergy or asthma symptoms or breathing difficul- ties if inhaled. |



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| 4.3 Indication of any immediate m | edical attention and special treatment neede | ed |
| Treatment | : Treat symptomatically. | - |
| SECTION 5: Firefighting measu | ires | |
| 5.1 Extinguishing media | | |
| Suitable extinguishing media | : In case of fire, use water/water spray/water j ide/sand/foam/alcohol resistant foam/chemic extinction. | |
| 5.2 Special hazards arising from t | he substance or mixture | |
| Hazardous combustion prod- ucts | : No hazardous combustion products are know | wn |
| 5.3 Advice for firefighters | | |
| Special protective equipment for firefighters | : In the event of fire, wear self-contained brea | thing apparatus. |
| Further information | : Standard procedure for chemical fires. | |
| SECTION 6: Accidental release | emeasures | |
| 6.1 Personal precautions, protect | ve equipment and emergency procedures | |
| Personal precautions | : Use personal protective equipment. Deny access to unprotected persons. | |
| 6.2 Environmental precautions | | |
| | : Do not flush into surface water or sanitary se | ewer system. |
| 6.3 Methods and material for cont | ainment and cleaning up | |
| Methods for cleaning up | : Soak up with inert absorbent material (e.g. s acid binder, universal binder, sawdust). Keep in suitable, closed containers for dispo | - |
| 6.4 Reference to other sections | | |
| For personal protection see sec | tion 8. | |

7.1 Precautions for safe handling

Advice on safe handling : Avoid exceeding the given occupational exposure limits (see section 8).



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| | | For personal protection see section 8. Persons with a history of skin sensitisation ma, allergies, chronic or recurrent respir not be employed in any process in which used. Smoking, eating and drinking should be plication area. Follow standard hygiene measures whe products | atory disease should h this mixture is being prohibited in the ap- |
| Advice on protection against fire and explosion | : | Normal measures for preventive fire pro | tection. |
| Hygiene measures | : | Handle in accordance with good industri practice. When using do not eat or drink smoke. Wash hands before breaks and | . When using do not |
| 7.2 Conditions for safe storage, | inc | luding any incompatibilities | |
| Requirements for storage areas and containers | : | Keep container tightly closed in a dry an place. Store in accordance with local reg | |
| Further information on stor- age stability | : | No decomposition if stored and applied a | as directed. |
| 7.3 Specific end use(s) | | | |
| Specific use(s) | : | Cleaning with aprotic polar solvents mus Consult most current local Product Data use. | |

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parame- ters * | Basis * |
|-------------------------------------|----------------|-------------------------------|---------------------------|------------|
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | TWA | 0,02 mg/m3 (NCO) | GB EH40 |
| | Further inform | ation: Capable of ca | using occupation | al asthma. |
| | | STEL | 0,07 mg/m3 (NCO) | GB EH40 |

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

Biological occupational exposure limits

| Substance name | CAS-No. | Control parame- ters | Sampling time | Basis |
|-------------------------------------|----------|-------------------------|-------------------|-------------|
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | isocyanate- | At the end of the | GB EH40 BAT |



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| | | derived diamine (Isocyanates): 1 μmol/mol creati- nine (Urine) | period of expo- sure |
| Exposure controls | | | |
| Engineering measures Maintain air concentrations be Ensure adequate ventilation, | | occupational exposure standards. cially in confined areas. | |
| Personal protective equipm | nent | | |
| Eye/face protection | | Safety glasses with side-shields conforn Eye wash bottle with pure water | ning to EN166 |
| Hand protection | | Chemical-resistant, impervious gloves c proved standard must be worn at all time chemical products. Reference number E facturer specifications. | es when handling |
| | | Suitable for short time use or protection Butyl rubber/nitrile rubber gloves (> 0,1) Contaminated gloves should be remove Suitable for permanent exposure: Viton gloves (0.4 mm), breakthrough time >30 min. | mm) |
| Skin and body protection | | Protective clothing (e.g. Safety shoes ac long-sleeved working clothing, long trou and protective boots are additionaly reco and stirring work. | sers). Rubber aprons |
| Respiratory protection | | In case of inadequate ventilation wear re Respirator selection must be based on k exposure levels, the hazards of the proc ing limits of the selected respirator. Use a properly fitted NIOSH approved a respirator complying with an approved s sessment indicates this is necessary. organic vapor filter (Type A) A1: < 1000 ppm; A2: < 5000 ppm; A3: < Ensure adequate ventilation. This can b exhaust extraction or by general ventilat | known or anticipated luct and the safe work- ir-purifying or air-fed tandard if a risk as- 10000 ppm e achieved by local |

exhaust extraction or by general ventilation. (EN 689 - Methods for determining inhalation exposure). This applies in particular to the mixing / stirring area. In case this is not sufficent to keep the concentrations under the occupational exposure limits then respiration protection measures must be used.

Environmental exposure controls

General advice

: Do not flush into surface water or sanitary sewer system.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Physical state Appearance Colour | : | liquid paste black |
|---|-----|---|
| Odour | : | odourless |
| Melting point/range / Freezing point | : | No data available |
| Boiling point/boiling range | : | No data available |
| Flammability (solid, gas) | : | No data available |
| Upper/lower flammability or e | avn | losive limits |
| Upper explosion limit / Up- per flammability limit | | |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Flash point | : | > 100 °C Method: closed cup |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| рН | : | Not applicable substance/mixture is non-soluble (in water) |
| Viscosity | | |
| Viscosity, dynamic | : | Not applicable |
| Viscosity, kinematic | : | > 20,5 mm2/s (40 °C) |
| Solubility(ies) Water solubility | : | insoluble |



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| Partition coefficient: n- octanol/water | : | No data available | |
| Vapour pressure | : | 0,01 hPa | |
| Density | : | ca. 1,21 g/cm3 (20 °C) | |
| Relative vapour density | : | No data available | |
| Particle characteristics | : | No data available | |
| No data available | | | |
| No data available SECTION 10: Stability and r 10.1 Reactivity | | vity der conditions of normal use. | |
| No data available SECTION 10: Stability and r 10.1 Reactivity No dangerous reaction know 10.2 Chemical stability | vn unc | - | |
| No data available SECTION 10: Stability and r 10.1 Reactivity No dangerous reaction know 10.2 Chemical stability The product is chemically st | vn unc able. | der conditions of normal use. | |
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| No data available SECTION 10: Stability and r 10.1 Reactivity No dangerous reaction know 10.2 Chemical stability The product is chemically st 10.3 Possibility of hazardous r Hazardous reactions | vn unc able. | der conditions of normal use. | |
| SECTION 10: Stability and r 10.1 Reactivity No dangerous reaction know 10.2 Chemical stability The product is chemically st 10.3 Possibility of hazardous r | vn unc able. | der conditions of normal use. | |
| No data available SECTION 10: Stability and r 10.1 Reactivity No dangerous reaction know 10.2 Chemical stability The product is chemically st 10.3 Possibility of hazardous r Hazardous reactions 10.4 Conditions to avoid Conditions to avoid | vn und able. eactio : | der conditions of normal use. ons No hazards to be specially mentioned. | |
| No data available SECTION 10: Stability and r 10.1 Reactivity No dangerous reaction know 10.2 Chemical stability The product is chemically st 10.3 Possibility of hazardous r Hazardous reactions 10.4 Conditions to avoid | vn und able. eactio : | der conditions of normal use. ons No hazards to be specially mentioned. | |
| No data available SECTION 10: Stability and r 10.1 Reactivity No dangerous reaction know 10.2 Chemical stability The product is chemically st 10.3 Possibility of hazardous r Hazardous reactions 10.4 Conditions to avoid Conditions to avoid 10.5 Incompatible materials | vn und able. eactio : : | der conditions of normal use. Ons No hazards to be specially mentioned. Avoid moisture. No data available | |

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified based on available information.



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| Components: | | |
| 4,4'-methylenediphenyl diis | socyanate: | |
| Acute oral toxicity | : LD50 Oral (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401 | |
| Acute inhalation toxicity | : LC50: 1,5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgement | |
| | Acute toxicity estimate: 1,5 mg/l Test atmosphere: dust/mist Method: Calculation method | |
| 2-ethyl-2-[[(1-oxoallyl)oxy]r | nethyl]-1,3-propanediyl diacrylate: | |
| Acute oral toxicity | : LD50 Oral (Rat): 3.680 - 5.000 mg/kg | |
| Acute dermal toxicity | : LD50 Dermal (Rabbit): > 5.000 mg/kg | |
| Pentamethyl piperidylseba | cate: | |
| Acute oral toxicity | : LD50 Oral (Rat): 3.230 mg/kg | |
| Skin corrosion/irritation | | |
| Not classified based on avail | able information. | |
| Serious eye damage/eye in Not classified based on avail | | |
| Respiratory or skin sensitis | sation | |
| Skin sensitisation Not classified based on avail | able information. | |
| Respiratory sensitisation | | |
| | symptoms or breathing difficulties if inhaled. | |
| Germ cell mutagenicity Not classified based on avail | able information. | |
| Carcinogenicity Not classified based on avail | able information. | |
| Reproductive toxicity | | |
| Not classified based on avail | able information. | |
| STOT - single exposure Not classified based on avail | able information. | |
| STOT - repeated exposure | | |
| Not classified based on avail | able information. | |



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Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Components:

| | 2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate: | | |
|------|---|-----|--|
| | Toxicity to fish | : | LC50 (Danio rerio (zebra fish)): 0,87 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 |
| | M-Factor (Acute aquatic tox- icity) | : | 1 |
| | M-Factor (Chronic aquatic toxicity) | : | 1 |
| | Pentamethyl piperidylsebac | ate | : |
| | Toxicity to fish | : | LC50 (Fish): 0,97 mg/l Exposure time: 96 h |
| | M-Factor (Acute aquatic tox- icity) | : | 1 |
| | M-Factor (Chronic aquatic toxicity) | : | 1 |
| 12.2 | 2 Persistence and degradabili | ity | |
| | No data available | , | |

12.3 Bioaccumulative potential

No data available



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| 12.4 Mobility in soil | | |
| No data available | | |
| 12.5 Results of PBT and vPvB asse | ssment | |
| Product: | | |
| Assessment : | This substance/mixture contains no component to be either persistent, bioaccumulative and tox very persistent and very bioaccumulative (vPvB 0.1% or higher | kic (PBT), or |
| 12.6 Endocrine disrupting propertie | 25 | |
| Product: | | |
| Assessment : | The substance/mixture does not contain component ered to have endocrine disrupting properties ac REACH Article 57(f) or Commission Delegated (EU) 2017/2100 or Commission Regulation (EU levels of 0.1% or higher. | cording to regulation |
| 12.7 Other adverse effects | | |
| Product: Additional ecological infor- : mation | There is no data available for this product. | |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

| 5 | |
|---|---|
| : | The generation of waste should be avoided or minimized wherever possible. |
| | Empty containers or liners may retain some product residues. |
| | This material and its container must be disposed of in a safe way. |
| | Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. |
| | Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. |
| | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. |
| | |

SECTION 14: Transport information

14.1 UN number or ID number



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|---|--|----------------------|
| ADR | : Not regulated as a dangerous good | |
| IMDG | : Not regulated as a dangerous good | |
| ΙΑΤΑ | : Not regulated as a dangerous good | |
| 14.2 UN proper shipping na | ame | |
| ADR | : Not regulated as a dangerous good | |
| IMDG | : Not regulated as a dangerous good | |
| ΙΑΤΑ | : Not regulated as a dangerous good | |
| 14.3 Transport hazard clas | s(es) | |
| ADR | : Not regulated as a dangerous good | |
| IMDG | : Not regulated as a dangerous good | |
| ΙΑΤΑ | : Not regulated as a dangerous good | |
| 14.4 Packing group | | |
| ADR | : Not regulated as a dangerous good | |
| IMDG | : Not regulated as a dangerous good | |
| IATA (Cargo) | : Not regulated as a dangerous good | |
| IATA (Passenger) | : Not regulated as a dangerous good | |
| 14.5 Environmental hazard Not regulated as a dang | - | |
| 14.6 Special precautions for Not applicable | or user | |
| 14.7 Maritime transport in I Not applicable for produ | oulk according to IMO instruments ct as supplied. | |

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant EU provisions transposed through retained EU law

| UK REACH List of restrictions (Annex 17) | Conditions of restriction for the following entries should be considered: 1,2-Benzenedicarboxylic acid, di-C9- 11-branched alkyl esters, C10-rich (Number on list 52) 4,4'-methylenediphenyl diisocyanate (Number on list 74, 56) |
|--|--|
| International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors | : Not applicable |



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| Regulation (EC) No 1005/2009 or plete the ozone layer | substances that de- : Not applicable | |
| GB Export and import of hazardou Informed Consent (PIC) Regulation | | |
| Control of Major Accident Hazards 2015 (COMAH) Volatile organic compounds : | s Regulations Not applicable Law on the incentive tax for volatile organic con (VOCV) Volatile organic compounds (VOC) content: < (no VOC duties Directive 2010/75/EU of 24 November 2010 or emissions (integrated pollution prevention and Volatile organic compounds (VOC) content: < (| n industrial control) |
| If other regulatory information app Sheet, then it is described in this s | lies that is not already provided elsewhere in th subsection. | e Safety Data |
| Health, safety and environ- : mental regulation/legislation specific for the substance or mixture: | Environmental Protection Act 1990 & Subsidia Health and Safety at Work Act 1974 & Subsidia Control of Substances Hazardous to Health Re (COSHH) | ary Regulations egulations |

May be subject to the Control of Major Accident Hazards

Regulations (COMAH), and amendments.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

| Full text of H-Statements | |
|---------------------------|--|
| H315 | : Causes skin irritation. |
| H317 | : May cause an allergic skin reaction. |
| H319 | : Causes serious eye irritation. |
| H332 | : Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficul- ties if inhaled. |
| H335 | : May cause respiratory irritation. |
| H351 | : Suspected of causing cancer. |
| H361f | : Suspected of damaging fertility. |
| H373 | : May cause damage to organs through prolonged or repeated exposure if inhaled. |
| H400 | : Very toxic to aquatic life. |

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| H410 | : Very toxic to | aquatic life with long lasting | effects. | |
| Full text of other abbreviat | ions | | | |
| Acute Tox. | : Acute toxici | v | | |
| Aquatic Acute | | acute) aquatic hazard | | |
| Aquatic Chronic | | chronic) aquatic hazard | | |
| Carc. | : Carcinogen | | | |
| Eye Irrit. | : Eye irritation | | | |
| Repr. | : Reproductiv | | | |
| Resp. Sens. | | sensitisation | | |
| Skin Irrit. | : Skin irritatio | | | |
| Skin Sens. | : Skin sensitis | | | |
| | | | | |
| STOT RE | | et organ toxicity - repeated e | | |
| STOT SE | : Specific targ | et organ toxicity - single expo | sure | |
| GB EH40 | | /EL - Workplace Exposure Li | | |
| GB EH40 BAT | | al monitoring guidance value | | |
| GB EH40 / TWA | | xposure limit (8-hour TWA re | | |
| GB EH40 / STEL | | exposure limit (15-minute refe | | |
| ADR | | greement concerning the Inte | rnational Carriage of | |
| | | Goods by Road | | |
| CAS | | ostracts Service | | |
| DNEL | : Derived no- | | | |
| EC50 | : Half maxima | I effective concentration | | |
| GHS | : Globally Ha | monized System | | |
| IATA | : Internationa | Air Transport Association | | |
| IMDG | : Internationa | Maritime Code for Dangerou | is Goods | |
| LD50 | : Median leth | al dosis (the amount of a mate | erial, given all at | |
| | once, which | causes the death of 50% (on | e half) of a group of | |
| | test animals | | , , , | |
| LC50 | : Median leth | al concentration (concentratio | ns of the chemical in | |
| | | air that kills 50% of the test animals during the observation | | |
| | period) | | 0 | |
| MARPOL | | Convention for the Prevention | on of Pollution from | |
| | | as modified by the Protocol of | | |
| OEL | | al Exposure Limit | | |
| PBT | | bioaccumulative and toxic | | |
| PNEC | | effect concentration | | |
| REACH | | EC) No 1907/2006 of the Eur | opean Parliament | |
| | | ouncil of 18 December 2006 | | |
| | | aluation, Authorisation and Re | | |
| | | cals (REACH), establishing a European Chemicals Agency | | |
| SVHC | | of Very High Concern | | |
| vPvB | | ent and very bioaccumulative | | |
| | | | | |
| Further information | | | | |
| Classification of the mixtu | re: | Classification p | procedure: | |
| | | | | |

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The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

Changes as compared to previous version !

GB / EN