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

1.1 Product identifier

Trade name : Sikasil[®] SG-510 (B)

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

Product use : Catalyst for 2 Comp. sealants/adhesives.

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)

| Skin irritation, Category 2 | H315: Causes skin irritation. |
|--------------------------------|--|
| Serious eye damage, Category 1 | H318: Causes serious eye damage. |
| Skin sensitisation, Category 1 | H317: May cause an allergic skin reaction. |

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

| Hazard pictograms | : | LE | |
|-------------------|---|----------------------|---|
| Signal word | : | Danger | • |
| Hazard statements | : | H315 H317 H318 | Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. |

Precautionary statements : Prevention:



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| | P261 P264 P280 | Avoid breathing mist or vapours. Wash skin thoroughly after handl Wear protective gloves/ eye prote protection. | |
| | Response: | | |
| | P305 + P351 + P | 338 + P310 IF IN EYES: Rinse with water for several minutes. R tact lenses, if present and easy to tinue rinsing. Immediately call a F CENTER/ doctor. | emove con- o do. Con- |
| | P333 + P313 | If skin irritation or rash occurs: G advice/ attention. | et medical |
| | P362 + P364 | Take off contaminated clothing a before reuse. | nd wash it |

Hazardous components which must be listed on the label:

N-[3-(triethoxysilyl)propyl]ethylenediamine

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) |
|--|---|---|--------------------------|
| N-[3- (triethoxysi- lyl)propyl]ethylenediamine Contains: N,N'-bis[3- (triethoxysi- lyl)propyl]ethylenediamine >= 15 - <= 20 % di- aminoethylaminopropyltetraethox- ydisiloxane >= 3 - <= 5 % | 5089-72-5 225-806-1 01-2120767929-30- XXXX | Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 | >= 10 - < 20 |
| [3-(2,3- epoxypro- poxy)propyl]trimethoxysilane Contains: methanol <= 0,2 % | 2530-83-8 219-784-2 01-2119513212-58- XXXX | Eye Dam. 1; H318 Aquatic Chronic 3; H412 | >= 5 - < 10 |
| trimethoxy(methyl)silane Contains: methanol <= 2 % dimethoxydimethylsilane <= 1 % | 1185-55-3 214-685-0 01-2119517436-40- XXXX | Flam. Liq. 2; H225 | >= 5 - < 10 |
| trimethoxyoctylsilane Contains: methanol <= 0,2 % | 3069-40-7 221-338-7 01-2119948401-42- XXXX | Skin Irrit. 2; H315 | >= 2,5 - < 5 |
| methanol | 67-56-1 200-659-6 01-2119433307-44- XXXX | Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 STOT SE 1; H370 | < 1 |

For explanation of abbreviations see section 16.





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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 : | Small amounts splashed into eyes can cause irreversible tis- sue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Keep eye wide open while rinsing. | | | |
| 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 | effects, both acute and delayed | | | |
| Symptoms : | Allergic reactions Excessive lachrymation Erythema Dermatitis See Section 11 for more detailed information on health effects and symptoms. | | | |
| Risks : | irritant effects sensitising effects | | | |
| | Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. | | | |
| 4.3 Indication of any immediate me | edical attention and special treatment needed | | | |
| Treatment : | Treat symptomatically. | | | |



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| SECTION 5: Firefighting meas | sur | es | |
| 5.1 Extinguishing media | | | |
| Suitable extinguishing media | : | In case of fire, use water/water spray/water ide/sand/foam/alcohol resistant foam/chem extinction. | |
| 5.2 Special hazards arising from | th | e substance or mixture | |
| Hazardous combustion prod- ucts | : | No hazardous combustion products are known | own |
| 5.3 Advice for firefighters | | | |
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained bre | athing apparatus. |
| Further information | : | Standard procedure for chemical fires. | |
| SECTION 6: Accidental releas | e I | neasures | |
| 6.1 Personal precautions, protect | tiv | e equipment and emergency procedures | |
| Personal precautions | : | Use personal protective equipment. Deny access to unprotected persons. | |
| 6.2 Environmental precautions | | | |
| Environmental precautions | : | Do not flush into surface water or sanitary | sewer system. |
| 6.3 Methods and material for con | ntai | nment and cleaning up | |
| Methods for cleaning up | : | Soak up with inert absorbent material (e.g. | sand, silica gel. |

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

| Advice on safe handling | : Avoid exceeding the given occupational exposure limits (see section 8). |
|-------------------------|---|
| | Do not get in eyes, on skin, or on clothing. |
| | For personal protection see section 8. |
| | Persons with a history of skin sensitisation problems or asth- |
| | ma, allergies, chronic or recurrent respiratory disease should |



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| | not be employed in any process in which used. Smoking, eating and drinking should be p plication area. | - |
| | Follow standard hygiene measures when products | handling chemical |
| Advice on protection against : fire and explosion | Normal measures for preventive fire prote | ection. |
| Hygiene measures : | Handle in accordance with good industria practice. When using do not eat or drink. smoke. Wash hands before breaks and a | When using do not |
| 7.2 Conditions for safe storage, in | cluding any incompatibilities | |
| Requirements for storage : areas and containers | Keep container tightly closed in a dry and place. Store in accordance with local reg | |
| Further information on stor- : age stability | No decomposition if stored and applied a | s directed. |
| 7.3 Specific end use(s) | | |
| Specific use(s) : | Consult most current local Product Data a use. | Sheet prior to any |

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 * | |
|------------|---------------|--|---------------------------|------------|--|
| methanol | 67-56-1 | TWA | 200 ppm 260 mg/m3 | 2006/15/EC | |
| | | Further information: Indicative, Identifies the possibility of signifi- cant uptake through the skin | | | |
| | | TWA | 200 ppm 266 mg/m3 | GB EH40 | |
| | signed substa | Further information: Can be absorbed through the skin. The as- signed substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | |
| | | STEL | 250 ppm 333 mg/m3 | 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.

Occupational exposure limits of decomposition products

| Components | CAS-No. | Value type (Form of exposure) | Control parame- ters * | Basis * |
|------------|---------|----------------------------------|---------------------------|---------|
| ethanol | 64-17-5 | TWA | 1.000 ppm 1.920 mg/m3 | GB EH40 |



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| | I | Further information: Where no specific short-term exposure limit listed, a figure three times the long-term exposure limit should b used. | | | |
| methanol | e | 67-56-1 | TWA | 200 ppm 260 mg/m3 | 2006/15/EC |
| | | Further information: Indicative, Identifies the possibility of signifi- cant uptake through the skin | | | |
| | | | TWA | 200 ppm 266 mg/m3 | GB EH40 |
| | s | Further information: Can be absorbed through the skir signed substances are those for which there are conce dermal absorption will lead to systemic toxicity. | | | |
| | | | STEL | 250 ppm 333 mg/m3 | 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.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|----------------|--------------------|-----------------|--------------------------|-----------|
| methanol | Workers | Skin contact | | 40 mg/m3 |
| | Exposure time: 8 h | า | | |
| | Consumers | Skin contact | | 260 mg/m3 |
| | Exposure time: 8 h | า | | |

8.2 Exposure controls

Engineering measures

Maintain air concentrations below occupational exposure standards. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

| Eye/face protection | : | Safety glasses with side-shields conforming to EN166 Eye wash bottle with pure water |
|--------------------------|---|--|
| Hand protection | : | Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications. |
| | | Suitable for short time use or protection against splashes: Butyl rubber/nitrile rubber gloves (> 0,1 mm) Contaminated gloves should be removed. Suitable for permanent exposure: Viton gloves (0.4 mm), breakthrough time >30 min. |
| Skin and body protection | : | Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionaly recommended for mixing and stirring work. |
| Respiratory protection | : | In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe work- ing limits of the selected respirator. |
| untry CP 10000019004 | | 7/ |



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| | organic vapor filter (Type A) A1: < 1000 ppm; A2: < 5000 ppm; A3: < 100 Ensure adequate ventilation. This can be acl exhaust extraction or by general ventilation. ods for determining inhalation exposure). Th ticular to the mixing / stirring area. In case th to keep the concentrations under the occupa limits then respiration protection measures m | hieved by local (EN 689 - Meth- is applies in par- is is not sufficent ational exposure | |
| Environmental exposure contr | ols | | |
| General advice : | : Do not flush into surface water or sanitary sewer system. | | |
| • | A1: < 1000 ppm; A2: < 5000 ppm; A3: < 100 Ensure adequate ventilation. This can be acl exhaust extraction or by general ventilation. ods for determining inhalation exposure). Th ticular to the mixing / stirring area. In case th to keep the concentrations under the occupa limits then respiration protection measures m | hieved by local (EN 689 - Meth- is applies in par- is is not sufficent ational exposure nust be used. | |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Physical state Appearance Colour Odour | : solid : paste : black : odourless | |
|---|--|----|
| Melting point/range / Freezir point | ng : No data available | |
| Boiling point/boiling range | : No data available | |
| Flammability (solid, gas) | : No data available | |
| Upper/lower flammability | or explosive limits | |
| | p- : No data available | |
| Lower explosion limit / Lower flammability limit | : No data available | |
| Flash point | : Not applicable | |
| Auto-ignition temperature | : No data available | |
| Decomposition temperature | : No data available | |
| рН | : ca. 8 - 10 Concentration: 100 % | 6 |
| Viscosity | | |
| Viscosity, dynamic | : ca. 520 mPa.s (20 °C | 2) |
| Viscosity, kinematic | : > 20,5 mm2/s (40 °C |) |
| | | |



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| Solubility(ies) Water solubility | : | No data available | |
| Partition coefficient: n- octanol/water | : | No data available | |
| Vapour pressure | : | 0,01 hPa | |
| Density | : | ca. 1,09 g/cm3 (20 °C) | |
| Relative vapour density | : | No data available | |
| Particle characteristics | : | No data available | |
| 9.2 Other information Flammable solids Burning rate | : | > 120 s Method: UN-Test N1 | |

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

Hazardous decomposition : ethanol, methanol products



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SECTION 11: Toxicological information

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

Acute toxicity

Not classified based on available information.

Components:

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

| Acute oral toxicity | : | LD50 Oral (Rat): 7.010 mg/kg |
|---------------------------|---|--|
| Acute inhalation toxicity | : | LC50 (Rat): > 5,3 mg/l Exposure time: 4 h Test atmosphere: dust/mist |
| Acute dermal toxicity | : | LD50 Dermal (Rabbit): 4.248 mg/kg |

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.



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| 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:

N-[3-(triethoxysilyl)propyl]ethylenediamine:

| Toxicity to fish (Chronic tox- | : | LC50: 597 mg/l |
|--------------------------------|---|-----------------------------------|
| icity) | | Exposure time: 96 h |
| | | Species: Danio rerio (zebra fish) |

2

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Toxicity to fish

: LC50 (Cyprinus carpio (Carp)): 55 mg/l Exposure time: 96 h

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment

: 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..

12.6 Endocrine disrupting properties

Product:

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to



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|---|---|---|
| | REACH Article 57(f) or Commission I (EU) 2017/2100 or Commission Regu levels of 0.1% or higher. | |
| 12.7 Other adverse effects | | |
| Product: | | |
| Additional ecological infor- mation | : There is no data available for this pro | oduct. |
| SECTION 13: Disposal consi | | |
| OLOTION 13. Disposal colls | | |
| 13.1 Waste treatment methods Product | : The generation of waste should be av | voided or minimized |
| 13.1 Waste treatment methods | | some product residues. |
| 13.1 Waste treatment methods | The generation of waste should be average wherever possible. Empty containers or liners may retain This material and its container must be way. Dispose of surplus and non-recyclable | n some product residues. De disposed of in a safe |
| 13.1 Waste treatment methods | The generation of waste should be average wherever possible. Empty containers or liners may retain This material and its container must be way. Dispose of surplus and non-recyclable waste disposal contractor. Disposal of this product, solutions and | n some product residues. De disposed of in a safe le products via a licensed d any by-products should |
| 13.1 Waste treatment methods | The generation of waste should be average wherever possible. Empty containers or liners may retain This material and its container must be way. Dispose of surplus and non-recyclable waste disposal contractor. | n some product residues. De disposed of in a safe le products via a licensed d any by-products should ents of environmental |

SECTION 14: Transport information

14.1 UN number or ID number

| 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 name | | |
| 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 class(es) | | |
| ADR | : | Not regulated as a dangerous good |
| IMDG | : | Not regulated as a dangerous good |
| ΙΑΤΑ | : | Not regulated as a dangerous good |
| Country CD 40000040004 | | |



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| 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 hazards Not regulated as a dangerou | s good | | |
| 14.6 Special precautions for us Not applicable | er | | |
| 14.7 Maritime transport in bulk | accordin | g to IMO instruments | |

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

| | 1 1 6 | | | |
|--|---|---|------------|----------------|
| | UK REACH List of restrictions (Annex | 17) | : | Not applicable |
| | UK REACH Candidate list of substanc concern (SVHC) for Authorisation | es of very high | : | Not applicable |
| | The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Brit- ain) International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors | | | Not applicable |
| | | | | Not applicable |
| | Regulation (EC) No 1005/2009 on sub plete the ozone layer | stances that de- | : | Not applicable |
| | UK REACH List of substances subject to authorisation (Annex XIV) | | | Not applicable |
| | GB Export and import of hazardous ch Informed Consent (PIC) Regulation | Not applicable | | |
| | Control of Major Accident Hazards Res 2015 (COMAH) | Not | applicable | |
| | Volatile organic compounds : Law (VC Vola | Law on the incentive tax for volatile organic compounds (VOCV) Volatile organic compounds (VOC) content: 0,1% w/w | | |
| | no | VOC duties | | |



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Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 0,1% w/w

If other regulatory information applies that is not already provided elsewhere in the Safety Data Sheet, then it is described in this subsection.

Health, safety and environmental regulation/legislation specific for the substance or mixture: Environmental Protection Act 1990 & Subsidiary Regulations Health and Safety at Work Act 1974 & Subsidiary Regulations Control of Substances Hazardous to Health Regulations (COSHH)
 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

| H225 H301 H311 H315 H317 H318 H331 H370 H412 | : | Highly flammable liquid and vapour. Toxic if swallowed. Toxic in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Toxic if inhaled. Causes damage to organs. Harmful to aquatic life with long lasting effects. | | |
|---|---|--|--|--|
| Full text of other abbreviations | | | | |
| Acute Tox. Aquatic Chronic Eye Dam. Flam. Liq. Skin Irrit. Skin Sens. STOT SE 2006/15/EC GB EH40 2006/15/EC / TWA GB EH40 / TWA GB EH40 / STEL | | Acute toxicity Long-term (chronic) aquatic hazard Serious eye damage Flammable liquids Skin irritation Skin sensitisation Specific target organ toxicity - single exposure Europe. Indicative occupational exposure limit values UK. EH40 WEL - Workplace Exposure Limits Limit Value - eight hours Long-term exposure limit (8-hour TWA reference period) Short-term exposure limit (15-minute reference period) | | |
| ADR CAS DNEL EC50 | : | European Agreement concerning the International Carriage of Dangerous Goods by Road Chemical Abstracts Service Derived no-effect level Half maximal effective concentration | | |



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| GHS IATA IMDG LD50 | Globally Harmonized System International Air Transport Association International Maritime Code for Dangerou Median lethal dosis (the amount of a mat once, which causes the death of 50% (or | erial, given all at |
| LC50 | test animals) Median lethal concentration (concentration air that kills 50% of the test animals durin period) | ons of the chemical in |
| MARPOL | International Convention for the Prevention Ships, 1973 as modified by the Protocol | |
| OEL PBT | Occupational Exposure LimitPersistent, bioaccumulative and toxic | |
| PNEC REACH | Predicted no effect concentration Regulation (EC) No 1907/2006 of the Eu and of the Council of 18 December 2006 istration, Evaluation, Authorisation and R cals (REACH), establishing a European (| concerning the Reg- estriction of Chemi- |
| SVHC vPvB | Substances of Very High Concern Very persistent and very bioaccumulative | |

Further information

| Classification o | f the mixture: | Classification procedure: |
|------------------|----------------|---------------------------|
| Skin Irrit. 2 | H315 | Calculation method |
| Eye Dam. 1 | H318 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |

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