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

1.1 Product identifier

Trade name : Sikaflex[®] PRO-3 SL i

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 responsible for the SDS | : | EHS@uk.sika.com |
| | | |

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 sensitisation, Category 1

H317: May cause an allergic skin reaction.

2.2 Label elements

| Labelling (REGULATION (EC) No 1272/2008) | | | | | | |
|------------------------------------------|---|------------|------------------------------------------------------------------------|--|--|--|
| Hazard pictograms | : | | | | | |
| Signal word | : | Warning | | | | |
| Hazard statements | : | H317 | May cause an allergic skin reaction. | | | |
| Precautionary statements | : | Prevention | : | | | |
| | | P261 | Avoid breathing mist or vapours. | | | |
| | | P272 | Contaminated work clothing should not be allowed out of the workplace. | | | |
| | | P280 | Wear protective gloves. | | | |



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| | Response: | | |
| | P333 + P313 | If skin irritation or rash occurs: advice/ attention. | Get medical |
| | P362 + P364 | Take off contaminated clothing before reuse. | and wash it |
| | Disposal: | | |
| | P501 | Dispose of contents/container with local regulation. | in accordance |

Hazardous components which must be listed on the label:

Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane Hardener LI (Isophoronedialdimine) Pentamethyl piperidylsebacate m-tolylidene diisocyanate 4,4'-methylenediphenyl diisocyanate

Additional Labelling

| EUH204 | Contains isocyanates. May produce an allergic reaction. |
|--------|--------------------------------------------------------------------------------------------------|
| EUH211 | Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. |

"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) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Reaction product of Hexameth- ylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane | 192526-20-8 924-669-1 01-2120768758-32- XXXX | Skin Sens. 1A; H317 Aquatic Chronic 4; H413 | >= 0,25 - < 0,5 |
| Hardener LI (Isophoronedial- dimine) | 932742-30-8 700-071-4 UK-01-4889597125- 6-0001 | Skin Sens. 1B; H317 Aquatic Chronic 3; H412 | >= 0,1 - < 0,25 |
| 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 | >= 0,1 - < 0,25 |
| | | M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 | |
| m-tolylidene diisocyanate | 26471-62-5 247-722-4 01-2119454791-34- XXXX | Acute Tox. 1; H330 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) Aquatic Chronic 3; H412 | >= 0,025 - < 0,1 |
| | | specific concentration limit Resp. Sens. 1; H334 >= 0,1 % | |
| | | Acute toxicity esti- mate | |
| | | Acute inhalation tox- icity (vapour): 0,107 mg/l | |



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| 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 specific concentration limit Eye Irrit. 2; H319 >= 5 % STOT SE 3; H335 >= 5 % Skin Irrit. 2; H315 >= 5 % Resp. Sens. 1; H334 >= 0,1 % Acute toxicity esti- mate Acute inhalation tox- icity (dust/mist): 1,5 mg/l | < 0,1 |
| Titanium dioxide (> 10 µm) | 13463-67-7 236-675-5 | | >= 2,5 - < 5 |
| For explanation of abbreviations so | 01-2119489379-17- XXXX | | |

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 | e. |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----|
| lf 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. | /. |



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| 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 unconscio | |
| 4.2 Most important symptoms ar | nd e | effects, both acute and delayed | |
| Symptoms | : | Allergic reactions See Section 11 for more detailed information of and symptoms. | on health effects |
| | | sensitising effects | |
| Risks | : | eenenien geneede | |
| | : mee | May cause an allergic skin reaction. dical attention and special treatment needed Treat symptomatically. | I |
| 4.3 Indication of any immediate Treatment SECTION 5: Firefighting meas | : | May cause an allergic skin reaction. dical attention and special treatment needed Treat symptomatically. | L |
| 4.3 Indication of any immediate Treatment SECTION 5: Firefighting meas | sur | May cause an allergic skin reaction. dical attention and special treatment needed Treat symptomatically. | t/carbon diox- |
| 4.3 Indication of any immediate of Treatment SECTION 5: Firefighting mease 5.1 Extinguishing media Suitable extinguishing media | : sur | May cause an allergic skin reaction. dical attention and special treatment needed Treat symptomatically. res In case of fire, use water/water spray/water jet ide/sand/foam/alcohol resistant foam/chemica extinction. | t/carbon diox- |
| 4.3 Indication of any immediate of Treatment SECTION 5: Firefighting mease 5.1 Extinguishing media Suitable extinguishing media 5.2 Special hazards arising from | : sur : | May cause an allergic skin reaction. dical attention and special treatment needed Treat symptomatically. res In case of fire, use water/water spray/water jet ide/sand/foam/alcohol resistant foam/chemica extinction. | t/carbon diox- l powder for |
| 4.3 Indication of any immediate of Treatment SECTION 5: Firefighting mease 5.1 Extinguishing media Suitable extinguishing media 5.2 Special hazards arising from Hazardous combustion products | : sur : | May cause an allergic skin reaction. dical attention and special treatment needed Treat symptomatically. res In case of fire, use water/water spray/water jet ide/sand/foam/alcohol resistant foam/chemica extinction. e substance or mixture | t/carbon diox- l powder for |
| 4.3 Indication of any immediate of Treatment SECTION 5: Firefighting meases 5.1 Extinguishing media Suitable extinguishing media 5.2 Special hazards arising from Hazardous combustion products 5.3 Advice for firefighters | : sur : the | May cause an allergic skin reaction. dical attention and special treatment needed Treat symptomatically. res In case of fire, use water/water spray/water jet ide/sand/foam/alcohol resistant foam/chemica extinction. e substance or mixture | t/carbon diox- l powder for |

6.1 Personal precautions, protective equipment and emergency procedures

| Personal precautions | : | Use personal protective equipment. |
|----------------------|---|-------------------------------------|
| | | Deny access to unprotected persons. |



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| 6.2 Environmental precautions Environmental precautions | : Do not flush into surface water or sanitary sew | er system. |
| 6.3 Methods and material for cont | ainment and cleaning up | |
| Methods for cleaning up | : Soak up with inert absorbent material (e.g. sar acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposa | |
| C 4 Defenses to other costions | | |

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



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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 * | | | |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Titanium dioxide (> 10 μm) | 13463-67-7 | TWA (inhalable | 10 mg/m3 | GB EH40 | | | |
| | | dust) | . e | 00 2000 | | | |
| | | TWA (Respirable | 4 mg/m3 | GB EH40 | | | |
| | | dust) | | | | | |
| m-tolylidene diisocyanate | 26471-62-5 | TWA | 0,02 mg/m3 (NCO) | GB EH40 | | | |
| | asthma (also k can induce a s immunologica become hyper sometimes ev toms. These s asthma. Not a come hyper-re those who are that can cause substances who | ation: Substances t known as asthmage state of specific airw l irritant or other me r-responsive, further en in tiny quantities symptoms can range Il workers who are e esponsive and it is in likely to become hy e occupational asthr hich may trigger the | ns and respiratory yay hyper-respons chanism. Once the exposure to the s may cause respine in severity from a exposed to a sens mpossible to ident yper-responsive. ma should be distin symptoms of asth | v sensitisers) iveness via an e airways have substance, ratory symp- a runny nose to itiser will be- ify in advance Substances nguished from ima in people | | | |
| | include the dis classified as a mation can be assessments asthma., Whe stances that c Where this is a standards of c responsive. Fo COSHH requi sonably practi centrations sh ment is being employees ex may cause oc consultation w degree of risk pational asthm assigned only | ng airway hyper-res sease themselves. T isthmagens or respi- of the evidence for a rever it is reasonabl an cause occupatio not possible, the pri- control to prevent we or substances that or cable. Activities givi- ould receive particu- considered. Health posed or liable to be cupational asthma a vith an occupational and level of surveill na., The 'Sen' notati- to those substance | The latter substand ratory sensitisers. publication Asthma agents implicated y practicable, exp nal asthma should mary aim is to app orkers from become can cause occupate reduced to as low ng rise to short-ten lar attention when surveillance is app e exposed to a sub and there should be health profession ance., Capable of on in the list of WE s which may caus | es are not Further infor- gen? Critical in occupational osure to sub- l be prevented. ly adequate ing hyper- ional asthma, w as is rea- rm peak con- risk manage- propriate for all ostance which e appropriate al over the causing occu- ELs has been e occupational | | | |
| | bered that oth | asthma in the categories shown in Table 1. It should be remem- bered that other substances not in these tables may cause occu- pational asthma. HSE's asthma web pages | | | | | |
| | | .uk/asthma) provide | | on. | | | |
| | | STEL | 0,07 mg/m3 (NCO) | GB EH40 | | | |



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| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | TWA | 0,02 mg/m3 (NCO) | GB EH40 |

| | | | | | (NCO) | |
|--|--|---|---------------------|----------------------|------------------|------------|
| | | | Further information | ation: Capable of ca | using occupation | al asthma. |
| | | | | STEL | 0,07 mg/m3 | GB EH40 |
| | | - | | | (NCO) | |

*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 |
|-------------------------------------|------------|-------------------------------------------------------------------------------------------|----------------------------------------------|-------------|
| m-tolylidene diisocyanate | 26471-62-5 | isocyanate- derived diamine (Isocyanates): 1 µmol/mol creati- nine (Urine) | At the end of the period of expo- sure | GB EH40 BAT |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | isocyanate- derived diamine (Isocyanates): 1 µmol/mol creati- nine (Urine) | At the end of the period of expo- sure | GB EH40 BAT |

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

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|---------------------------------------------------------------------------------------------------------------|-----------|-----------------|-------------------------------|-----------|
| Reaction product of Hexamethylene diisocy- anate, oligomers with Mercaptopropyltri- methoxysilane | Workers | Inhalation | Long-term systemic effects | 1,7 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 4,7 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 0,3 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 1,7 mg/kg |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value |
|--------------------------------------|---------------------------|-------------|
| Reaction product of Hexamethylene | Fresh water | 0,1 mg/l |
| diisocyanate, oligomers with Mercap- | | |
| topropyltrimethoxysilane | | |
| | Intermittent use/release | 1 mg/l |
| | Marine water | 0,01 mg/l |
| | Intermittent use/release | 1 mg/l |
| | Fresh water sediment | 23,28 mg/kg |
| | Marine sediment | 2,33 mg/kg |
| | Sewage treatment plant | 100 mg/l |
| | Soil | 4,58 mg/kg |

8.2 Exposure controls

Engineering measures

Maintain air concentrations below occupational exposure standards.



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Ensure adequate ventilation, especially in confined areas.

| Personal protective equipment | | | | | |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Eye/face protection : Hand protection : | Safety glasses with side-shields conforming to EN166 Eye wash bottle with pure water Chemical-resistant, impervious gloves complying with an ap- proved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manu- facturer 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. organic vapor filter (Type A) A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Meth- ods for determining inhalation exposure). This applies in par- ticular 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 | | | | | |

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Physical state Appearance Colour Odour | : | liquid paste various none |
|-------------------------------------------------|---|------------------------------------|
| Melting point/range / Freezing point | : | No data available |
| Boiling point/boiling range | : | No data available |



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| Flammability (solid, gas) | : | No data available | | | | |
| Upper/lower flammability or e | Upper/lower flammability or explosive limits | | | | | |
| Upper explosion limit / Up- per flammability limit | : | No data available | | | | |
| Lower explosion limit / Lower flammability limit | : | No data available | | | | |
| Flash point | : | > 101 °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, kinematic | : | > 20,5 mm2/s (40 °C) | | | | |
| Solubility(ies) | | | | | | |
| Water solubility | : | insoluble | | | | |
| Partition coefficient: n- octanol/water | : | No data available | | | | |
| Vapour pressure | : | 0,01 hPa | | | | |
| Density | : | ca. 1,39 g/cm3 (20 °C) | | | | |
| Relative vapour density | : | No data available | | | | |
| Particle characteristics | : | No data available | | | | |
| 9.2 Other information | | | | | | |

9.2 Other information

No data available

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



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| Hazardous reactions | No hazards to be specially mentioned. | |
| 10.4 Conditions to avoid Conditions to avoid | Avoid moisture. | |
| 10.5 Incompatible materials Materials to avoid | No data available | |
| 10.6 Hazardous decomposition pro | ducts | |
| | No hazardous decomposition products are know | vn. |

SECTION 11: Toxicological information

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

Acute toxicity

Not classified due to lack of data.

Components:

Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane:

| Acute oral toxicity | : | LD50 Oral (Rat): > 2.000 mg/kg Method: OECD Test Guideline 423 |
|-----------------------|---|---------------------------------------------------------------------|
| Acute dermal toxicity | : | LD50 Dermal (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 |

Hardener LI (Isophoronedialdimine):

| Acute oral toxicity | : | LD50 Oral (Rat): > 2.000 mg/kg |
|---------------------|---|--------------------------------|
| | | |

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg

Pentamethyl piperidylsebacate:

Acute oral toxicity : LD50 Oral (Rat): 3.230 mg/kg

m-tolylidene diisocyanate:

| Acute inhalation toxicity | : | LC50 (Rat): 0,107 mg/l Exposure time: 4 h Test atmosphere: vapour |
|---------------------------|---|-------------------------------------------------------------------------|
| | | Acute toxicity estimate: 0,107 mg/l Test atmosphere: vapour |



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| | Method: Calculation method | |
| 4,4'-methylenediphenyl diiso | cyanate: | |
| 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 | |
| Skin corrosion/irritation Not classified due to lack of da | ta. | |
| Serious eye damage/eye irrit Not classified due to lack of da | | |
| Respiratory or skin sensitisa | tion | |
| Skin sensitisation May cause an allergic skin read | ction. | |
| Respiratory sensitisation Not classified due to lack of da | ta. | |
| Germ cell mutagenicity Not classified due to lack of da | ta. | |
| Carcinogenicity Not classified due to lack of da | ta. | |
| Reproductive toxicity Not classified due to lack of da | ta. | |
| STOT - single exposure Not classified due to lack of da | ta. | |
| STOT - repeated exposure Not classified due to lack of da | ta. | |
| Aspiration toxicity Not classified due to lack of da | ta. | |
| .2 Information on other hazards | 6 | |
| Endocrine disrupting proper | ties | |
| Product: Assessment | : The substance/mixture does not contain co | ampananta consid |



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| | | ered to have endocrine disrupting properti REACH Article 57(f) or Commission Deleg (EU) 2017/2100 or Commission Regulation levels of 0.1% or higher. | pated regulation |
| ECTION 12: Ecological infor | ma | tion | |
| 2.1 Toxicity | | | |
| <u>Components:</u> Reaction product of Hexame ysilane: | ethy | /lene diisocyanate, oligomers with Merca | aptopropyltrimethox- |
| Toxicity to fish | : | LC50 (Brachydanio rerio (zebrafish)): > 10 Exposure time: 96 h Method: OECD Test Guideline 203 | ı0 mg/l |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 10 Exposure time: 48 h Method: OECD Test Guideline 202 | 0 mg/l |
| Toxicity to algae/aquatic plants | : | EC50 (Pseudokirchneriella subcapitata (al Exposure time: 72 h Method: OECD Test Guideline 201 | gae)): > 100 mg/l |
| Hardener LI (Isophoronedia | ldiı | nine): | |
| Toxicity to fish | : | LC50 (Fish): 87,2 mg/l Exposure time: 96 h | |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia (water flea)): > 100 mg/l Exposure time: 48 h | |
| Toxicity to algae/aquatic plants | : | EC50 (Desmodesmus subspicatus (green Exposure time: 72 h | algae)): 180,4 mg/l |
| Pentamethyl piperidylsebaca | 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 | |
| 2.2 Persistence and degradabili No data available | ty | | |



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| 12.3 Bioaccumulative potential No data available | | |
| 12.4 Mobility in soil No data available | | |
| 12.5 Results of PBT and vPvB as | sessment | |
| <u>Product:</u> Assessment | : This substance/mixture contains no comp to be either persistent, bioaccumulative ar very persistent and very bioaccumulative 0.1% or higher | nd toxic (PBT), or |
| 12.6 Endocrine disrupting prope | rties | |
| Product: | | |
| Assessment | : The substance/mixture does not contain c ered to have endocrine disrupting properti REACH Article 57(f) or Commission Delec (EU) 2017/2100 or Commission Regulation levels of 0.1% or higher. | ies according to gated regulation |
| 12.7 Other adverse effects | | |
| <u>Product:</u> Additional ecological infor- mation | : There is no data available for this product | |
| SECTION 13: Disposal consid | erations | |
| 13.1 Waste treatment methods | | |
| Product | : The generation of waste should be avoide wherever possible. | |
| | Example containana an linana may natain aon | |

| | | 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. |
| European Waste Catalogue | : | 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances |
| Contaminated packaging | : | 15 01 10* packaging containing residues of or contaminated |
| Country GB 10000002059 | | 14 / |

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| | | |

by dangerous substances

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 | e | |
| 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(e | s) | |
| 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 hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according 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

UK REACH List of restrictions (Annex 17)

: Conditions of restriction for the following entries should be considered:



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|------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | m-tolylidene diisocyanate (Number on list 74) 4,4'-methylenediphenyl diisocyanate (Number on list 74, 56) hexamethylene-di-isocyanate (Number on list 74) 1,2-Benzenedicarboxylic acid, di-C9- 11-branched alkyl esters, C10-rich (Number on list 52) |
| UK REACH Candidate list of subs concern (SVHC) for Authorisation | | Not applicable |
| The Persistent Organic Pollutants Regulation (EU) 2019/1021 as an ain) | | Not applicable |
| International Chemical Weapons Schedules of Toxic Chemicals an | | Not applicable |
| Regulation (EC) No 1005/2009 or plete the ozone layer | n substances that de- : | Not applicable |
| UK REACH List of substances su (Annex XIV) | bject to authorisation : | Not applicable |
| GB Export and import of hazardou Informed Consent (PIC) Regulation | | Not applicable |
| Control of Major Accident Hazard | s Regulations No | tapplicable |
| 2015 (COMAH) Volatile organic compounds : | Law on the incentive tax f (VOCV) no VOC duties | or volatile organic compounds |
| | | 4 November 2010 on industrial ution prevention and control) |
| If other regulatory information app Sheet, then it is described in this | | vided elsewhere in the Safety Data |
| Health safety and environ- | Environmental Protection | Act 1990 & Subsidiary Regulations |

| Health, safety and environ- mental 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. |
|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | regulations (Commin), and amenaments. |



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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. |
| H330 | : | Fatal if inhaled. |
| H332 | : | Harmful if inhaled. |
| H334 | : | May cause allergy or asthma symptoms or breathing difficul- |
| 11554 | · | ties if inhaled. |
| 11225 | | |
| 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. |
| H410 | : | Very toxic to aquatic life with long lasting effects. |
| H412 | : | Harmful to aquatic life with long lasting effects. |
| H413 | : | May cause long lasting harmful effects to aquatic life. |
| Full text of other abbreviatio | ons | |
| Acute Tox. | • | Acute toxicity |
| Aquatic Acute | | Short-term (acute) aquatic hazard |
| Aquatic Chronic | : | Long-term (chronic) aquatic hazard |
| Carc. | : | Carcinogenicity |
| Eye Irrit. | : | Eye irritation |
| Repr. | : | Reproductive toxicity |
| Resp. Sens. | : | Respiratory sensitisation |
| Skin Irrit. | : | Skin irritation |
| Skin Sens. | : | Skin sensitisation |
| STOT RE | : | Specific target organ toxicity - repeated exposure |
| STOT SE | : | Specific target organ toxicity - single exposure |
| GB EH40 | : | UK. EH40 WEL - Workplace Exposure Limits |
| GB EH40 BAT | : | UK. Biological monitoring guidance values |
| GB EH40 / TWA | ÷ | Long-term exposure limit (8-hour TWA reference period) |
| GB EH40 / STEL | : | Short-term exposure limit (15-minute reference period) |
| | : | |
| ADR | · | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| CAS | • | Chemical Abstracts Service |
| DNEL | ÷ | Derived no-effect level |
| EC50 | | Half maximal effective concentration |
| GHS | : | Globally Harmonized System |
| IATA | : | International Air Transport Association |
| IMDG | : | International Maritime Code for Dangerous Goods |
| LD50 | : | Median lethal dosis (the amount of a material, given all at |
| | • | once, which causes the death of 50% (one half) of a group of |
| | | |



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| | | test animals) | | |
| LC50 | : | Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period) | | |
| MARPOL | : | International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978 | | |
| OEL | : | Occupational Exposure Limit | | |
| PBT | : | Persistent, bioaccumulative and toxic | | |
| PNEC | : | Predicted no effect concentration | | |
| REACH | : | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Reg- istration, Evaluation, Authorisation and Restriction of Chemi- cals (REACH), establishing a European Chemicals Agency | | |
| SVHC | : | Substances of Very High Concern | 0, | |
| vPvB | : | Very persistent and very bioaccumulative | | |
| Further information | | | | |
| Classification of the mixture: | | Classification p | rocedure: | |

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.

Calculation method

Changes as compared to previous version !

H317

GB / EN

Skin Sens. 1