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| Version | Revision Date: | SDS Number: | Date of last issue: 23.11.2021 |
|---------|----------------|--------------|---------------------------------|
| 2.0 | 26.07.2023 | MAT000477749 | Date of first issue: 23.11.2021 |
| | | GB/EN | |

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

1.1 Product identifier

Trade name

: MOBIHEL 2K HS HARDENER 4300

Product code : 47774901

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

| Use of the Sub- stance/Mixture | : | Coatings and paints, thinners, paint removers |
|-----------------------------------|---|---|
| Recommended restrictions | • | Reserved for industrial and professional use. |

Recommended restrictions : Reserved for industrial and professional use. on use

1.3 Details of the supplier of the safety data sheet

| Company | : Helios TBLUS d.o.o. Količevo 65 1230 Domžale Slovenia |
|----------------------------|--|
| Telephone Company | : 386 (1) 722 4383 |
| Telefax Company | : 386 (1) 722 4310 |
| Responsible/issuing person | : 386 (1) 722 4383 productsafety@helios.si |

1.4 Emergency telephone number

Call 999 (or 112) for emergency medical attention

professionals only: National Poison Information Service (NPIS) 24h national number 0844 892 0111

consumer: National Health Service (NHS) 24h national number, England & Scotland 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

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| | | | | |
| Flam | mable liquids, Categ | jory 3 | H226: Flammable liquid and vapour. | |
| Acute | e toxicity, Category 2 | 4 | H332: Harmful if inhaled. | |
| Skin s | sensitisation, Catego | ory 1 | H317. May cause an allergic skin reaction. | |
| Speci | ific target organ toxi | city - single ex- | H335: May cause respiratory irritation. | |
| posu | re. Category 3. Rest | piratory system | | |
| Long | posure, Category 3, Respiratory system Long-term (chronic) aquatic hazard, Cat- | | H412: Harmful to aquatic life with long lasting ef- | |
| _ | egory 3 | | fects. | |

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

| Hazard pictograms | |
|----------------------------|--|
| Signal word : | Warning |
| Hazard statements : | H226 Flammable liquid and vapour. H317 May cause an allergic skin reaction. H332 Harmful if inhaled. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects. |
| Precautionary statements : | Prevention: |
| | P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing mist or vapours. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. |
| | Response: |
| | P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. |

Hazardous components which must be listed on the label:

Hexamethylene-di-isocyanate, polymer 2-butoxyethyl acetate Hydrocarbons, C9 aromatics hexamethylene-di-isocyanate

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.

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| | | | |

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| Chemical name | CAS-No. | Classification | Concentration |
|--|---------------------------|--|---------------|
| | EC-No. | | (% w/w) |
| | Index-No. | | |
| | Registration number | | |
| Hexamethylene diisocyanate, oligo- mers | 28182-81-2 | Acute Tox. 4; H332 Skin Sens. 1; H317 | >= 50 - < 70 |
| | 500-060-2 | STOT SE 3; H335 | |
| | 01-2119485796-17 | (Respiratory sys- tem) | |
| 2-butoxyethyl acetate | 112-07-2 | Acute Tox. 4; H302 Acute Tox. 4; H332 | >= 10 - < 20 |
| | 203-933-3 | Acute Tox. 4, H312 | |
| | 607-038-00-2 | | |
| | 01-2119475112-47 | | |
| n-butyl acetate | 123-86-4 | Flam. Liq. 3; H226 STOT SE 3; H336 | >= 10 - < 20 |
| | 204-658-1 | (Central nervous | |
| | 607-025-00-1 | system) | |
| Likudua aankanaa (00 anamatiaa | 01-2119485493-29 | | 0.5 40 |
| Hydrocarbons, C9 aromatics | 128601-23-0 | Flam. Liq. 3; H226 STOT SE 3; H336 | >= 2,5 - < 10 |
| | 918-668-5 | (Central nervous | |
| | 01-2119455851-35 | system) | |
| | | STOT SE 3; H335 | |
| | | (Respiratory sys- | |
| | | tem) Asp. Tox. 1; H304 | |
| | | Aquatic Chronic 2; | |
| | | H411 | |
| solvent naphtha (petroleum), light | 64742-95-6 | Flam. Liq. 3; H226 | >= 2,5 - < 10 |
| aromatic | 005 400 0 | STOT SE 3; H336 | |
| | 265-199-0 649-356-00-4 | (Central nervous system) | |
| | 01-2119455851-35 | STOT SE 3; H335 | |
| | | (Respiratory sys- | |
| | | tem) | |
| | | Asp. Tox. 1; H304 | |
| | | Aquatic Chronic 2; | |
| | | H411 | |
| hexamethylene diisocyanate | 822-06-0 | Acute Tox. 4; H302 Acute Tox. 2; H330 | < 0,1 |
| | 212-485-8 | Skin Irrit. 2, H315 | |
| | 615-011-00-1 | Eye Irrit. 2; H319 | |
| | 01-2119457571-37 | Resp. Sens. 1; | |
| | | H334 | |
| | | Skin Sens. 1; H317 | |

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| | | | STOT SE 3; H335 (Respiratory sys- tem) specific concentra- tion limit Resp. Sens. 1; H334 >= 0,5 % Skin Sens. 1; H317 >= 0,5 % |
| Subst | ances with a workpl | ace exposure limit | |
| ethyl 3 | 3-ethoxypropionate | 763-69-9 212-112-9 01-2119463 | Flam. Liq. 3; H226 >= 10 - < 20 |

SECTION 4: First aid measures

4.1 Description of first aid measures

| General advice | : Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended. | | |
|---|---|--|--|
| If inhaled | If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. | | |
| In case of skin contact | : If on skin, rinse well with water. If on clothes, remove clothes. | | |
| In case of eye contact | Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. | | |
| If swallowed | Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. | | |
| 4.2 Most important symptoms and effects, both acute and delayed | | | |

| Risks | : | May cause an allergic skin reaction. Harmful if inhaled. |
|-------|---|---|
| | | May cause respiratory irritation. |

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4.3 Indication of any immediate medical attention and special treatment needed

Treatment

: Treat symptomatically.

SECTION 5: Firefighting measures

| 5.1 Extinguishing media Suitable extinguishing media | : | Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical |
|--|-----|--|
| Unsuitable extinguishing media | : | High volume water jet |
| 5.2 Special hazards arising from | the | e substance or mixture |
| Specific hazards during fire- fighting | : | Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion prod- ucts | : | No hazardous combustion products are known |
| 5.3 Advice for firefighters | | |
| - | : | In the event of fire, wear self-contained breathing apparatus. |
| Further information | : | Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored sepa- rately in closed containments. Use a water spray to cool fully closed containers. |

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| Personal precautions | Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. |
|----------------------|--|
|----------------------|--|

6.2 Environmental precautions

| Environmental precautions | : | Prevent product from entering drains. | |
|---------------------------|---|---|--|
| | | Prevent further leakage or spillage if safe to do so. | |
| | | If the product contaminates rivers and lakes or drains inform | |
| | | respective authorities. | |

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6.3 Methods and material for containment and cleaning up

| Methods for cleaning up | : | Contain spillage, and then collect with non-combustible ab- sorbent material, (e.g. sand, earth, diatomaceous earth, ver- miculite) and place in container for disposal according to local / national regulations (see section 13). |
|-------------------------|---|--|
|-------------------------|---|--|

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

| | Advice on safe handling | : | Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the ap- plication area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not |
|-----|---|-----|--|
| | Advice on protection against fire and explosion | : | be employed in any process in which this mixture is being used. Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition. |
| | Hygiene measures | : | Wash hands before breaks and at the end of workday. |
| 7.2 | Conditions for safe storage, i | ncl | uding any incompatibilities |
| | Requirements for storage areas and containers | : | No smoking. Keep container tightly closed in a dry and well- ventilated place. Containers which are opened must be care- fully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. |
| | Further information on stor- age stability | : | No decomposition if stored and applied as directed. |
| 7.3 | Specific end use(s) | | |
| | Specific use(s) | : | For further information, refer to the product technical data sheet. |

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Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form | Control parameters | Basis | | | |
|--|---|----------------------------|------------------------------|---------------|--|--|--|
| | | of exposure) | | | | | |
| Hexamethylene-di- isocyanate, poly- | 28182-81-2 | TWA | 0,02 mg/m3 (NCO) | GB EH40 | | | |
| mer | | | | | | | |
| | Further inform | | ausing occupational asthma. | | | | |
| | | STEL | 0,07 mg/m3 | GB EH40 | | | |
| | | | (NCO) | | | | |
| | | | using occupational asthma. | 1 | | | |
| 2-butoxyethyl ace- | 112-07-2 | TWA | 20 ppm | GB EH40 | | | |
| tate | | | 133 mg/m3 | | | | |
| | | | bed through the skin. The as | | | | |
| | | | are concerns that dermal ab | sorption will | | | |
| | lead to system | nic toxicity. | | | | | |
| | | STEL | 50 ppm | GB EH40 | | | |
| | | | 332 mg/m3 | | | | |
| | Further inform | nation: Can be absor | bed through the skin. The as | signed sub- | | | |
| | stances are th | nose for which there | are concerns that dermal ab | sorption will | | | |
| | | lead to systemic toxicity. | | | | | |
| | , i i i i i i i i i i i i i i i i i i i | TWA | 20 ppm | 2000/39/EC | | | |
| | | | 133 mg/m3 | | | | |
| | Further information: Identifies the possibility of significant uptake through the | | | | | | |
| | skin, Indicative | | | | | | |
| | | STEL | 50 ppm | 2000/39/EC | | | |
| | | • • | 333 mg/m3 | | | | |
| | Further information: Identifies the possibility of significant uptake through the | | | | | | |
| | skin, Indicative | | | | | | |
| n-butyl acetate | 123-86-4 | TWA | 150 ppm | GB EH40 | | | |
| in bulyr abolato | 120 00 1 | | 724 mg/m3 | OD LITIO | | | |
| | | STEL | 200 ppm | GB EH40 | | | |
| | | OTEL | 966 mg/m3 | OD LI 140 | | | |
| | | STEL | 150 ppm | 2019/1831/E | | | |
| | | SILL | 723 mg/m3 | U | | | |
| | Further information: Indicative | | | | | | |
| | | TWA | 50 ppm | 2019/1831/E | | | |
| | | IVVA | 50 ppm | | | | |
| | 241 mg/m3 U Further information: Indicative | | | | | | |
| 1 | | | | | | | |
| hexamethylene-di- | 822-06-0 | TWA | 0,02 mg/m3 | GB EH40 | | | |
| isocyanate | | | | | | | |
| | Further information: Capable of causing occupational asthma. | | | | | | |
| | | STEL | 0,07 mg/m3 | GB EH40 | | | |

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| | (NCO) | |
|----------------|--|--|
| Further inform | ation: Capable of causing occupational asthma. | |

Biological occupational exposure limits

| Substance name | CAS-No. | Control parameters | Sampling time | Basis |
|--|------------|---|--------------------------------------|----------------|
| Hexamethylene-di- isocyanate, polymer | 28182-81-2 | isocyanate-derived diamine (Isocya- nates): 1 µmol/mol creatinine (Urine) | At the end of the period of exposure | GB EH40 BAT |
| hexamethylene-di- isocyanate | 822-06-0 | isocyanate-derived diamine (Isocya- nates): 1 µmol/mol creatinine (Urine) | At the end of the period of exposure | GB EH40 BAT |

Derived No Effect Level (DNEL):

| Substance name | End Use | Exposure routes | Potential health ef- fects | Value |
|--|-----------|-----------------|-------------------------------|----------------------|
| Hexamethylene-di- isocyanate, polymer | Workers | Inhalation | Long-term local ef- fects | 0,5 mg/m3 |
| | Workers | Inhalation | Long-term systemic effects | 1 mg/m3 |
| 2-butoxyethyl acetate | Workers | Inhalation | Long-term systemic effects | 333 mg/m3 |
| | Consumers | Oral | Long-term systemic effects | 86 mg/kg bw/day |
| | Workers | Dermal | Long-term systemic effects | 169 mg/kg bw/day |
| | Workers | Dermal | Acute systemic ef- fects | 120 mg/kg bw/day |
| | Consumers | Dermal | Long-term systemic effects | 102 mg/kg bw/day |
| | Consumers | Dermal | Acute systemic ef- fects | 72 mg/kg bw/day |
| | Consumers | Oral | Acute systemic ef- fects | 36 mg/kg bw/day |
| ethyl 3- ethoxypropionate | Workers | Inhalation | Long-term systemic effects | 610 mg/m3 |
| | Workers | Inhalation | Long-term local ef- fects | 610 mg/m3 |
| | Consumers | Inhalation | Long-term systemic effects | 72,6 mg/m3 |
| | Consumers | Inhalation | Long-term local ef- fects | 72,6 mg/m3 |
| | Workers | Dermal | Long-term local ef- fects | 102 mg/cm2 |
| | Workers | Dermal | Long-term systemic effects | 102 mg/kg bw/day |
| | Consumers | Dermal | Long-term systemic effects | 24,2 mg/kg bw/day |

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| | | Consumers | Oral | Long-term systemic effects | 1,2 mg/kg bw/day |
| n-buty | yl acetate | Workers | Inhalation | Acute systemic ef- fects | 600 mg/m |
| | | Workers | Inhalation | Acute local effects | 600 mg/m |
| | | Workers | Inhalation | Long-term systemic effects | 48 mg/m3 |
| | | Workers | Inhalation | Long-term local ef- fects | 300 mg/m |
| | | Consumers | Inhalation | Acute systemic ef- fects | 300 mg/m |
| | | Consumers | Inhalation | Acute local effects | 300 mg/m |
| | | Consumers | Inhalation | Long-term systemic effects | 12 mg/m3 |
| | | Consumers | Inhalation | Long-term local ef- fects | 35,7 mg/n |
| | | Consumers | Dermal | Long-term systemic effects | 3,4 mg/kg bw/day |
| | | Consumers | Dermal | Acute systemic ef- fects | 6 mg/kg bw/day |
| | | Consumers | Oral | Long-term systemic effects | 2 mg/kg bw/day |
| | | Consumers | Oral | Acute systemic ef- fects | 2 mg/kg bw/day |
| | | Workers | Dermal | Long-term systemic effects | 7 mg/kg bw/day |
| | | Workers | Dermal | Acute systemic ef- fects | 11 mg/kg bw/day |
| Hydro aroma | ocarbons, C9 atics | Workers | Inhalation | Long-term systemic effects | 150 mg/m |
| | | Workers | Oral | Long-term systemic effects | 150 mg/m |
| | | Consumers | Inhalation | Long-term exposure | 32 mg/m3 |
| | | Workers | Dermal | Long-term systemic effects | 25 mg/kg bw/day |
| | | Consumers | Dermal | Long-term systemic effects | 11 mg/kg bw/day |
| Solvent naphtha (pe- troleum), light arom.; Low boiling point naphtha -unspecified | Workers | Inhalation | Long-term systemic effects | 150 mg/m | |
| | Consumers | Inhalation | Long-term systemic effects | 32 mg/m3 | |
| | Consumers | Dermal | Long-term systemic effects | 11 mg/kg bw/day | |
| | Workers | Dermal | Long-term systemic effects | 25 mg/kg bw/day | |
| | | Consumers | Oral | Long-term systemic effects | 11 mg/kg bw/day |
| hexar isocya | nethylene-di- anate | Workers | Inhalation | Long-term systemic effects | 0,035 mg |

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| Workers | Inhalation | Acute systemic ef- fects | 0,07 mg/m3 |
|---------|------------|------------------------------|-------------|
| Workers | Inhalation | Long-term local ef- fects | 0,035 mg/m3 |
| Workers | Inhalation | Acute local effects | 0,07 mg/m3 |

Predicted No Effect Concentration (PNEC):

| Substance name | Environmental Compartment | Value |
|--------------------------------------|---------------------------|-----------------------------------|
| Hexamethylene-di-isocyanate, polymer | Soil | 505 mg/kg dry weight (d.w.) |
| | Marine water | 0,01 mg/l |
| | Fresh water | 0,1 mg/l |
| | Marine sediment | 253 mg/kg dry weight (d.w.) |
| | Fresh water sediment | 2530 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 100 mg/l |
| | Intermittent use/release | 1 mg/l |
| 2-butoxyethyl acetate | Soil | 0,415 mg/kg dry weight (d.w.) |
| | Marine water | 0,0304 mg/l |
| | Fresh water | 0,304 mg/l |
| | Marine sediment | 0,203 mg/kg dry weight (d.w.) |
| | Fresh water sediment | 2,03 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 90 mg/l |
| | Intermittent use/release | 0,56 mg/l |
| ethyl 3-ethoxypropionate | Soil | 0,048 mg/kg dry weight (d.w.) |
| | Marine water | 0,00609 mg/l |
| | Fresh water | 0,0609 mg/l |
| | Marine sediment | 0,0419 mg/kg dry weight (d.w.) |
| | Fresh water sediment | 0,419 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 50 mg/l |
| | Intermittent use/release | 0,609 mg/l |
| n-butyl acetate | Soil | 0,0903 mg/kg dry weight (d.w.) |
| | Marine water | 0,018 mg/l |
| | Fresh water | 0,18 mg/l |
| | Marine sediment | 0,0981 mg/kg dry weight (d.w.) |
| | Fresh water sediment | 0,981 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 35,6 mg/l |
| | Intermittent use/release | 0,36 mg/l |
| hexamethylene-di-isocyanate | Soil | 0,0026 mg/kg dry weight (d.w.) |
| | Marine water | 0,00774 mg/l |

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|---|----------------|------------------------------|--------------------------------------|---|

| Fresh water | 0,0774 mg/l |
|--------------------------|-------------------|
| Marine sediment | 0,001344 mg/kg |
| | dry weight (d.w.) |
| Fresh water sediment | 0,01334 mg/kg |
| | dry weight (d.w.) |
| Sewage treatment plant | 8,42 mg/l |
| Intermittent use/release | 0,774 mg/l |

8.2 Exposure controls

| Personal protective equipmen | t |
|------------------------------|--|
| Eye/face protection : | Equipment should conform to EN 166 Eye wash bottle with pure water Tightly fitting safety goggles |
| Hand protection | |
| Gloves : | Viton® (> 0,6 mm; < 240 min); DIN EN374 PE laminate (> 0,1 mm; < 240 min); DIN EN374 |
| Remarks : | The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local condi- tions under which the product is used, such as the danger of cuts, abrasion, and the contact time. |
| Skin and body protection : | Impervious clothing Choose body protection according to the amount and concen- tration of the dangerous substance at the work place. |
| Respiratory protection : | Use respiratory protection unless adequate local exhaust ven- tilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Equipment should conform to EN 14387 |
| Filter type : | Organic vapour type (A) |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Appearance Colour Odour Odour Threshold | liquid in accordance with the product description solvent-like No data available |
|--|---|
| рН | : Not applicable |
| Melting point/freezing point | : -78,0 °C (calculation method (principal components, lowest value)) |
| Boiling point/boiling range | : 126 °C (calculation method (principal components, lowest value)) |
| Flash point | : 50 °C |

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| | | | | | |
| FI | lammability (s | solid, gas) | : | Static-accumula | ating flammable liquid., Combustible Solids |
| | pper explosic ammability lin | | oer : | 10,1 %(V) (calc value)) | ulation method (principal components, highest |
| | ower explosic ammability lin | | ver : | 1,2 %(V) (calcu value)) | lation method (principal components, highest |
| R | elative vapou | r density | : | No data availab | le |
| R | elative densit | у | : | No data availab | le |
| D | ensity | | : | 1,04 g/cm3 | |
| S | olubility(ies) Water solut Solubility in | | : nts : | immiscible, part Description: mis | ly soluble scible with most organic solvents |
| | artition coeffic ctanol/water | cient: n- | : | log Pow: 1,81 (highest value)) | calculation method (principal components, |
| A | uto-ignition te | emperature | : | 280 °C (calcula value)) | tion method (principal components, highest |
| D | ecomposition | temperatu | re : | | on if stored and applied as directed. omposition products formed under fire condi- |
| Vi | iscosity Viscosity, ki | inematic | : | > 20,5 mm2/s (· | 40 °C) |
| E | xplosive prop | erties | : | Not applicable | |
| 0 | xidizing prop | erties | : | Sustains combu | ustion |
| 9.2 Ot | her informat | ion | | | |

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

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| 10.3 Poss | ibility of hazardous | s reactions | |
| Hazaı | dous reactions | : No decomposition | on if stored and applied as directed. |
| | | Vapours may for | m explosive mixture with air. |
| 10.4 Cond | litions to avoid | | |
| Condi | tions to avoid | : Heat, flames and | d sparks. |
| 10.5 Incor | npatible materials | | |
| Mater | ials to avoid | : Incompatible wit | h strong acids and bases. |
| | rdous decompositi | | |

Adequate ventilation is required. Heating can release vapours which can be ignited. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

| Acute toxicity Harmful if inhaled. | | |
|---------------------------------------|------|--|
| Product: | | |
| Acute oral toxicity | : | Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method |
| Acute inhalation toxicity | : | Acute toxicity estimate: 15,35 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method |
| Acute dermal toxicity | : | Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method |
| Components: | | |
| Hexamethylene-di-isocyan | ate, | polymer: |
| Acute inhalation toxicity | : | Assessment: The component/mixture is moderately toxic after short term inhalation. |
| 2-butoxyethyl acetate: | | |
| Acute oral toxicity | : | Assessment: The component/mixture is moderately toxic after single ingestion. |
| | | LD50 Oral (Rat): >= 2.400 mg/kg |
| Acute inhalation toxicity | : | LC50 (Rat): >= 50 mg/l |



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| | | | Exposure time: 2 Test atmosphere: | |
| Acute | e dermal toxicity | : | Assessment: The single contact with | component/mixture is moderately toxic after nskin. |
| | | | LD50 (Rabbit): >= | = 1.500 mg/kg |
| n-but | yl acetate: | | | |
| Acute | oral toxicity | : | LD50 Oral (Rat): : | >= 10.760 mg/kg |
| Acute | e dermal toxicity | : | LD50 (Rabbit): >= | = 5.000 mg/kg |
| Hydro | ocarbons, C9 arom | atics: | | |
| - | e dermal toxicity | | LD50 (Rabbit): > 3 | 3.160 mg/kg |
| Solve | ent naphtha (petrole | eum), li | ght arom.; Low bo | biling point naphtha -unspecified: |
| Acute | e oral toxicity | : | LD50 Oral (Rat): : | > 2.000 mg/kg |
| Acute | inhalation toxicity | : | LC50 (Rat): > 5 m Test atmosphere: | |
| Acute | e dermal toxicity | : | LD50 (Rabbit): > 2 | 2.000 mg/kg |
| hexa | methylene-di-isocy | anate: | | |
| | e oral toxicity | : | Assessment: The single ingestion. | component/mixture is moderately toxic after |
| Acute | inhalation toxicity | : | Assessment: The term inhalation. | component/mixture is highly toxic after short |
| | corrosion/irritation | | information. | |
| Prod | uct: | | | |
| Rema | arks | : | May cause skin ir | ritation and/or dermatitis. |
| | us eye damage/eye | | | |
| | lassified based on av | vailable | information. | |
| Prod | | | | |
| Rema | arks | : | Vapours may cau and the skin. | se irritation to the eyes, respiratory system |

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Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Product:

Remarks : Causes sensitisation.

Components:

| Hexamethylene-di-isocyana | ite, j | polymer: |
|---------------------------|--------|---|
| Result | : | Probability or evidence of skin sensitisation in humans |

Germ cell mutagenicity

Not classified based on available information.

Components:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

| Germ cell mutagenicity- As- | : | Classified based on benzene content < 0.1% (Regulation (EC) |
|-----------------------------|---|---|
| sessment | | 1272/2008, Annex VI, Part 3, Note P) |

Carcinogenicity

Not classified based on available information.

Components:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

| Carcinogenicity - Assess- | : | Classified based on benzene content < 0.1% (Regulation (EC) |
|---------------------------|---|---|
| ment | | 1272/2008, Annex VI, Part 3, Note P) |

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause respiratory irritation.

Components:

Hexamethylene-di-isocyanate, polymer:

| Assessment |
|------------|
|------------|

: May cause respiratory irritation.

n-butyl acetate:

Assessment : May cause drowsiness or dizziness.

2

Hydrocarbons, C9 aromatics:

Assessment

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| Assessment | |
|------------|--|
|------------|--|

: May cause respiratory irritation.

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Assessment : May cause drowsiness or dizziness.

Assessment

: May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Components:

Hydrocarbons, C9 aromatics:

May be fatal if swallowed and enters airways.

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

May be fatal if swallowed and enters airways.

- Product:
- Remarks

: Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:

2-butoxyethyl acetate:

| Toxicity to fish | : | LC50 (Fish): >= 31 mg/l Exposure time: 96 h |
|---|---|---|
| Toxicity to daphnia and other aquatic invertebrates | : | LC50 (Daphnia (water flea)): >= 142,5 mg/l Exposure time: 48 h |
| Toxicity to microorganisms | : | EC50 (Bacteria): >= 2.800 mg/l |
| n-butyl acetate: | | |
| | | |
| Toxicity to algae/aquatic | : | NOEC (Desmodesmus subspicatus (green algae)): > 200 mg/l |
| • | : | NOEC (Desmodesmus subspicatus (green algae)): > 200 mg/l EC50 (Desmodesmus subspicatus (green algae)): >= 647,7 mg/l Exposure time: 72 h |

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| Toxic | city to microorganisms | : | IC50 (Tetrahymena Exposure time: 40 h | |
| Hvdr | ocarbons, C9 aroma | tics: | | |
| - | city to fish | | LC50 (Fish): >= 9,2 Exposure time: 96 h | 5 |
| | city to daphnia and oth tic invertebrates | | EC50 (Daphnia (wa Exposure time: 48 h | |
| Ecot | oxicology Assessme | ent | | |
| | ••• | | Toxic to aquatic life | with long lasting effects. |
| Solv | ent naphtha (petrole | um), li | ight arom.; Low boil | ing point naphtha -unspecified: |
| Toxic | city to fish | : | LC50 (Fish): > 1 - 1 | 0 mg/l |
| | city to daphnia and oth tic invertebrates | ner : | LC50 (Daphnia (wa | ter flea)): > 1 - 10 mg/l |
| | city to microorganisms | : | EC50 (Bacteria): > 7 | 1 - 10 mg/l |
| Ecot | oxicology Assessme | ant | | |
| | | | Toxic to aquatic life | with long lasting effects. |
| 12.2 Pers | istence and degrada | bility | | |
| <u>Com</u> | ponents: | | | |
| 2-bu | toxyethyl acetate: | | | |
| Biode | egradability | : | Result: Biodegradal | ble |
| n-bu | tyl acetate: | | | |
| Biode | egradability | : | Result: Biodegradal | |
| | | | Biodegradation: 83 Exposure time: 28 c Method: OECD Tes | ł |
| Stab | ility in water | : | Degradation half life | e: 78 d |
| | | | pH: 8 Remarks: Hydrolyse | es slowly. |
| Phot | odegradation | : | Remarks: Decompo | oses rapidly in contact with light. |
| 12.3 Bioa | ccumulative potentia | al | | |
| Com | ponents: | | | |

2-butoxyethyl acetate:

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| | Partitic octano | n coefficient: n- l/water | : | log Pow: 1,51 | |
| | n-buty | l acetate: | | | |
| | - | umulation | : | | factor (BCF): 15 cumulation is unlikely. |
| | Partitic octano | n coefficient: n- I/water | : | log Pow: 1,81 | |
| | Hydro | carbons, C9 aroma | atics: | | |
| | Partitic octano | n coefficient: n- I/water | : | log Pow: < 4 | |
| | ethyl 3 | ethoxypropionate | e: | | |
| | Partitic octano | n coefficient: n- I/water | : | log Pow: 1,35 | |
| 12.4 | Mobili | ty in soil | | | |
| | Comp | onents: | | | |
| | Hydro | carbons, C9 aroma | atics: | | |
| | Mobilit | y | : | Medium: Air Content: 92,9 % | |
| | | | : | Medium: Water Content: 3,5 % | |
| | | | : | Medium: Soil Content: 1,9 % | |
| | | | : | Medium: Sedime Content: 1,8 % | ent |
| | | ution among enviror compartments | n- : | Koc: 1,71 - 14,70 Remarks: Mobile | |
| | | | | Remarks: The pr | oduct is insoluble and floats on water. |
| 12.5 | Result | s of PBT and vPvI | B asse | essment | |
| | <u>Produ</u> | <u>ct:</u> | | | |
| | Assess | sment | : | to be either persi | nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of |

12.6 Other adverse effects

Product:

| Endocrine disrupting poten- | : | The substance/mixture does not contain components consid- |
|-----------------------------|---|---|
|-----------------------------|---|---|



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| tial | | REACH Article 5 (EU) 2017/2100 | ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at |
| Add mat | itional ecological infor ion | unprofessional h | higher. I hazard cannot be excluded in the event of andling or disposal. ic life with long lasting effects. |

SECTION 13: Disposal considerations

| 13.1 Waste treatment methods | |
|------------------------------|--|
| Product | The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. |
| Contaminated packaging | Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum. |

SECTION 14: Transport information

14.1 UN number

| ADN | : | UN 1263 |
|---------------------------------|---|---------|
| ADR | : | UN 1263 |
| RID | : | UN 1263 |
| IMDG | : | UN 1263 |
| ΙΑΤΑ | : | UN 1263 |
| 14.2 UN proper shipping name | | |
| ADN | : | PAINT |
| ADR | : | PAINT |
| RID | : | PAINT |
| IMDG | : | PAINT |
| ΙΑΤΑ | : | Paint |
| 14.3 Transport hazard class(es) | | |
| ADN | : | 3 |
| ADR | : | 3 |
| | | |

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| RID | | : | 3 | |
| IMDG | ; | : | 3 | |
| ΙΑΤΑ | | : | 3 | |
| 14.4 Pack | ing group | | | |
| Class | ng group ification Code rd Identification Numb s | : er : : | III F1 30 3 | |
| Class Haza Label Tunne | ing group ification Code rd Identification Numb s el restriction code | er : : | III F1 30 3 (D/E) | |
| Class | ng group ification Code rd Identification Numb s | : er : : | III F1 30 3 | |
| Label | ng group | : | III 3 F-E, <u>S-E</u> | |
| Packi aircra Packi | ing instruction (LQ) | : | 366 Y344 III Flammable Liquids | |
| IATA Packi ger ai Packi | (Passenger) ing instruction (passer ircraft) ing instruction (LQ) ing group |)- : : : | 355 Y344 III Flammable Liquids | |
| 14.5 Envir | ronmental hazards | | | |
| ADR | onmentally hazardous | | no | |
| RID | onmentally hazardous onmentally hazardous | | no | |

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Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

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) UK REACH Candidate list of substances of very high | Conditions of restriction for the fol- lowing entries should be considered: Number on list 3 Not applicable |
|---|--|
| concern (SVHC) for Authorisation The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Brit- ain) | : Not applicable |
| Regulation (EC) No 1005/2009 on substances that de- plete the ozone layer | : Not applicable |
| UK REACH List of substances subject to authorisation (Annex XIV) | : Not applicable |
| GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation | : Not applicable |
| Control of Major Accident Hazards Regulations P5c 2015 (COMAH) | FLAMMABLE LIQUIDS |
| 34 | Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar proper- ties as regards flammability and environmental hazards as the products referred to in points (a) to (d) |
| emissions (integrated | of 24 November 2010 on industrial pollution prevention and control) punds (VOC) content: 46,15 % |
| Other regulations: | |

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Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full toxt of U Statemonto

| Full text of H-Statements | | |
|--------------------------------|----|--|
| H226 | : | Flammable liquid and vapour. |
| H302 | : | Harmful if swallowed. |
| H304 | : | May be fatal if swallowed and enters airways. |
| H312 | : | Harmful in contact with skin. |
| 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- |
| | | ties if inhaled. |
| H335 | : | May cause respiratory irritation. |
| H336 | : | May cause drowsiness or dizziness. |
| H411 | : | Toxic to aquatic life with long lasting effects. |
| Full text of other abbreviatio | ns | |
| Acute Tox. | : | Acute toxicity |
| Aquatic Chronic | : | Long-term (chronic) aquatic hazard |
| Asp. Tox. | : | Aspiration hazard |
| Eye Irrit. | : | Eye irritation |
| Flam. Liq. | : | Flammable liquids |
| Resp. Sens. | : | Respiratory sensitisation |
| Skin Irrit. | : | Skin irritation |
| Skin Sens. | : | Skin sensitisation |
| STOT SE | : | Specific target organ toxicity - single exposure |
| 2000/39/EC | : | Europe. Commission Directive 2000/39/EC establishing a first |
| | | list of indicative occupational exposure limit values |
| 2019/1831/EU | : | Europe. Commission Directive 2019/1831/EU establishing a |
| | | fifth list of indicative occupational exposure limit values |
| GB EH40 | : | UK. EH40 WEL - Workplace Exposure Limits |
| GB EH40 BAT | : | UK. Biological monitoring guidance values |
| 2000/39/EC / TWA | : | Limit Value - eight hours |
| 2000/39/EC / STEL | : | Short term exposure limit |
| 2019/1831/EU / TWA | : | Limit Value - eight hours |
| 2019/1831/EU / STEL | : | Short term exposure limit |
| GB EH40 / TWA | : | Long-term exposure limit (8-hour TWA reference period) |

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

| Classification of the m | ixture: | Classification procedure: |
|--|---------|-------------------------------------|
| Flam. Liq. 3 | H226 | Based on product data or assessment |
| Acute Tox. 4 | H332 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |
| STOT SE 3 | H335 | Calculation method |
| Flam. Liq. 3 Acute Tox. 4 Skin Sens. 1 STOT SE 3 Aquatic Chronic 3 | H412 | Calculation method |
| | | |

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

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