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Version 2.0

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

1.1 Product identifier

Trade name : MOBIHEL 2K HARDENER 1300

Product code : 41672603

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

on use

Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company : KANSAI HELIOS Slovenija 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@kansai-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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| Flammable liquids, Category 3 | H226: Flammable liquid and vapour. |
|--|--|
| Skin sensitisation, Category 1 | H317: May cause an allergic skin reaction. |
| Specific target organ toxicity - single exposure, Category 3, Central nervous system | H336: May cause drowsiness or dizziness. |
| Specific target organ toxicity - single exposure, Category 3, Respiratory system | H335: May cause respiratory irritation. |
| Long-term (chronic) aquatic hazard, Category 3 | H412: Harmful to aquatic life with long lasting effects. |

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 | : | | <u>(!)</u> |
|--------------------------|---|--------------------------------------|---|
| Signal word | : | Warning | |
| Hazard statements | : | H226 H317 H335 H336 H412 | Flammable liquid and vapour. May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects. |
| Precautionary statements | : | Prevention | : |
| · | | P210 P261 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| | | P201 | Avoid breathing mist or vapours. |
| | | P273 | Avoid breathing mist or vapours. Avoid release to the environment. |
| | | . = . | · · |
| | | P273 | Avoid release to the environment. Wear protective gloves/ protective clothing/ eye |
| | | P273 P280 Response: | Avoid release to the environment. Wear protective gloves/ protective clothing/ eye |

Hazardous components which must be listed on the label:

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Hexamethylene-di-isocyanate, polymer 2-ethoxy-1-methylethyl acetate n-butyl acetate Hydrocarbons, C9 aromatics

Additional Labelling

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|--|---|---|--------------------------|
| Hexamethylene diisocyanate, oligo- mers | 28182-81-2 500-060-2 01-2119485796-17 | Acute Tox. 4; H332 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system) | >= 30 - < 50 |
| 2-ethoxy-1-methylethyl acetate | 54839-24-6 259-370-9 603-177-00-8 01-2119475116-39 | Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) | >= 10 - < 20 |
| 2-butoxyethyl acetate | 112-07-2 203-933-3 607-038-00-2 01-2119475112-47 | Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 | >= 10 - < 20 |
| n-butyl acetate | 123-86-4 204-658-1 607-025-00-1 01-2119485493-29 | Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) | >= 1 - < 10 |
| Hydrocarbons, C9 aromatics | 64742-95-6 918-668-5 01-2119455851-35 | Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory sys- tem) Asp. Tox. 1; H304 Aquatic Chronic 2; H411 | >= 2,5 - < 10 |
| solvent naphtha (petroleum), light | 64742-95-6 | Flam. Liq. 3; H226 | >= 1 - < 2,5 |

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| aromatic | 265-199-0 649-356-00-4 01-2119455851-35 | STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory sys- tem) Asp. Tox. 1; H304 Aquatic Chronic 2; H411 | |
|--------------------------------------|---|---|--------------|
| Substances with a workplace exposure | e limit : | | |
| ethyl 3-ethoxypropionate | 763-69-9 212-112-9 01-2119463267-34 | Flam. Liq. 3; H226 | >= 10 - < 20 |

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.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : Consult a physician after significant exposure.

If unconscious, place in recovery position and seek medical

advice.

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.

May cause respiratory irritation. May cause drowsiness or dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

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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 substance or mixture

Specific hazards during fire-

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

ucts

Hazardous combustion prod- : No hazardous combustion products are known

5.3 Advice for firefighters

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

Collect contaminated fire extinguishing water separately. This Further information

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 concentra-

tions. 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

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respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) 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 be employed in any process in which this mixture is being used.

Advice on protection against

fire and explosion

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, including 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 carefully 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.

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7.3 Specific end use(s)

Specific use(s) : For further information, refer to the product technical data

sheet.

Consult the technical guidelines for the use of this sub-

stance/mixture.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|---|---------------------------------|-------------------------------|--|------------------|
| Hexamethylene-di- isocyanate, poly- mer | 28182-81-2 | TWA | 0,02 mg/m3 (NCO) | GB EH40 |
| | Further inform | nation: Capable of ca | using occupational asthma. | |
| | | STEL | 0,07 mg/m3 (NCO) | GB EH40 |
| | Further inform | nation: Capable of ca | using occupational asthma. | |
| 2-butoxyethyl ace- tate | 112-07-2 | TWA | 20 ppm 133 mg/m3 | GB EH40 |
| | | nose for which there | bed through the skin. The as are concerns that dermal abs | |
| | | STEL | 50 ppm 332 mg/m3 | GB EH40 |
| | | nose for which there | bed through the skin. The as are concerns that dermal ab | |
| | | TWA | 20 ppm 133 mg/m3 | 2000/39/EC |
| | Further inform skin, Indicative | | possibility of significant uptak | ce through the |
| | | STEL | 50 ppm 333 mg/m3 | 2000/39/EC |
| | Further inform skin, Indicative | | possibility of significant uptak | ce through the |
| n-butyl acetate | 123-86-4 | TWA | 150 ppm 724 mg/m3 | GB EH40 |
| | | STEL | 200 ppm 966 mg/m3 | GB EH40 |
| | | STEL | 150 ppm 723 mg/m3 | 2019/1831/E U |
| | Further inform | nation: Indicative | - | |

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| | TWA | 50 ppm 241 mg/m3 | 2019/1831/E U |
|---------------------------------|-----|---------------------|------------------|
| Further information: Indicative | | | |

Biological occupational exposure limits

| Substance name | CAS-No. | Control parameters | Sampling time | Basis |
|--|------------|-------------------------------------|--------------------------------------|----------------|
| Hexamethylene-di- isocyanate, polymer | 28182-81-2 | isocyanate-derived diamine (Isocya- | At the end of the period of exposure | GB EH40 BAT |
| 1300 yanato, porymer | | nates): 1 µmol/mol | period of exposure | DAT |
| | | creatinine | | |
| | | (Urine) | | |

Derived No Effect Level (DNEL):

according to Regulation (EC) No. 1907/2006

| Substance name | End Use | Exposure routes | Potential health effects | 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 |
| 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 |
| | Consumers | Oral | Long-term systemic effects | 1,2 mg/kg bw/day |
| 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 effects | 120 mg/kg bw/day |
| | Consumers | Dermal | Long-term systemic effects | 102 mg/kg bw/day |
| | Consumers | Dermal | Acute systemic effects | 72 mg/kg bw/day |
| | Consumers | Oral | Acute systemic ef- | 36 mg/kg |

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| | | | fects | bw/day |
|--|-----------|------------|------------------------------|---------------------|
| n-butyl acetate | Workers | Inhalation | Acute systemic ef- fects | 600 mg/m3 |
| | Workers | Inhalation | Acute local effects | 600 mg/m3 |
| | Workers | Inhalation | Long-term systemic effects | 48 mg/m3 |
| | Workers | Inhalation | Long-term local ef- fects | 300 mg/m3 |
| | Consumers | Inhalation | Acute systemic ef- fects | 300 mg/m3 |
| | Consumers | Inhalation | Acute local effects | 300 mg/m3 |
| | Consumers | Inhalation | Long-term systemic effects | 12 mg/m3 |
| | Consumers | Inhalation | Long-term local ef- fects | 35,7 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 3,4 mg/kg bw/day |
| | Consumers | Dermal | Acute systemic effects | 6 mg/kg bw/day |
| | Consumers | Oral | Long-term systemic effects | 2 mg/kg bw/day |
| | Consumers | Oral | Acute systemic effects | 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 |
| Hydrocarbons, C9 aromatics | Workers | Inhalation | Long-term systemic effects | 150 mg/m3 |
| | Workers | Oral | Long-term systemic effects | 150 mg/m3 |
| | 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 (petroleum), light arom.; Low boiling point naphtha -unspecified | Workers | Inhalation | Long-term systemic effects | 150 mg/m3 |
| | 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 |

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Predicted No Effect Concentration (PNEC):

according to Regulation (EC) No. 1907/2006

| Substance name | Environmental Compartment | Value |
|------------------------------|---------------------------|------------------|
| Hexamethylene-di-isocyanate, | Soil | 505 mg/kg dry |
| polymer | | 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 |
| 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 |
| 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 |
| 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 |

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Equipment should conform to EN 166

Eye wash bottle with pure water

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Tightly fitting safety goggles

Hand protection

Gloves : | Viton® (> 0,6 mm; < 240 min); ISO EN374 |

PE laminate (> 0,1 mm; < 240 min); ISO 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 conditions 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 : liquid

Colour : colourless

Odour : solvent-like

Odour Threshold : No data available

pH : Not applicable

Melting point/freezing point : -89,0 °C

(calculation method (principal components, lowest value))

Boiling point/boiling range : 126 °C (calculation method (principal components, lowest

value))

Flash point : 37 °C

Flammability (solid, gas) : Static-accumulating flammable liquid., Combustible Solids

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Upper explosion limit / Upper

flammability limit

10,1 %(V)

(calculation method (principal components, highest value))

Lower explosion limit / Lower

flammability limit

1 %(V)

(calculation method (principal components, highest value))

Vapour pressure : < 1.100 hPa (calculation method (principal components, high-

est value))

(50 °C)

Relative vapour density : 5,5 (calculation method (principal components, highest value))

(Air = 1.0)

Relative density : 0,95 (calculation method (principal components, highest val-

ue))

Density : 1,013 g/cm3

Solubility(ies)

Water solubility : immiscible, partly soluble

Solubility in other solvents : Description: miscible with most organic solvents

Partition coefficient: n-

octanol/water

log Pow: 1,81 (calculation method (principal components,

highest value))

Ignition temperature : 280 °C (calculation method (principal components, highest

value))

Decomposition temperature : No decomposition if stored and applied as directed.

Hazardous decomposition products formed under fire condi-

tions.

Viscosity

Viscosity, kinematic : > 20,5 mm2/s (40 °C)

Flow time : 12 s at 20 °C

Cross section: 4 mm Method: DIN 53211

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: Not applicable

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Oxidizing properties Sustains combustion

9.2 Other information

No data available

Explosive properties

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.

10.3 Possibility of hazardous reactions

Hazardous reactions No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid Incompatible with strong acids and bases.

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Not classified due to lack of data.

Product:

Acute oral toxicity Acute toxicity estimate: > 2.000 mg/kg

Method: Calculation method

Acute toxicity estimate: > 20 mg/l Acute inhalation toxicity

Exposure time: 4 h

Test atmosphere: vapour

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Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg

Method: Calculation method

Components:

Hexamethylene-di-isocyanate, 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

Exposure time: 2 h
Test atmosphere: vapour

Acute dermal toxicity : Assessment: The component/mixture is moderately toxic after

single contact withskin.

LD50 (Rabbit): >= 1.500 mg/kg

n-butyl acetate:

Acute oral toxicity : LD50 Oral (Rat): >= 10.760 mg/kg

Acute dermal toxicity : LD50 (Rabbit): >= 5.000 mg/kg

Hydrocarbons, C9 aromatics:

Acute dermal toxicity : LD50 (Rabbit): > 3.160 mg/kg

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

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

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l

Test atmosphere: vapour

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

Skin corrosion/irritation

Not classified based on available information.

Not classified due to lack of data.

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Product:

Remarks : May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Not classified based on available information.

Not classified due to lack of data.

Product:

Remarks : Vapours may cause irritation to the eyes, respiratory system

and the skin.

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified due to lack of data.

Product:

Remarks : Causes sensitisation.

Components:

Hexamethylene-di-isocyanate, polymer:

Result : Probability or evidence of skin sensitisation in humans

Germ cell mutagenicity

Not classified based on available information.

Not classified due to lack of data.

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.

Not classified due to lack of data.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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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.

Not classified due to lack of data.

STOT - single exposure

May cause respiratory irritation.

May cause drowsiness or dizziness.

May cause respiratory irritation.

May cause drowsiness or dizziness.

Components:

Hexamethylene-di-isocyanate, polymer:

Assessment : May cause respiratory irritation.

2-ethoxy-1-methylethyl acetate:

Assessment : May cause drowsiness or dizziness.

n-butyl acetate:

Assessment : May cause drowsiness or dizziness.

Hydrocarbons, C9 aromatics:

Assessment : May cause drowsiness or dizziness.

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.

Not classified due to lack of data.

Aspiration toxicity

Not classified based on available information.

Not classified due to lack of data.

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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.

Further information

Product:

Remarks : Symptoms of overexposure may be headache, dizziness,

tiredness, nausea and vomiting.

Concentrations substantially above the TLV value may cause

narcotic effects.

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

plants

NOEC (Desmodesmus subspicatus (green algae)): > 200 mg/l

EC50 (Desmodesmus subspicatus (green algae)): >= 647,7

mg/l

Exposure time: 72 h

Toxicity to microorganisms : IC50 (Tetrahymena pyriformis): 356 mg/l

Exposure time: 40 h

Hydrocarbons, C9 aromatics:

Toxicity to fish : LC50 (Fish): >= 9.2 mg/l

Exposure time: 96 h

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aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): >= 3,2 mg/l

Exposure time: 48 h

Ecotoxicology Assessment

Chronic aquatic toxicity Toxic to aquatic life with long lasting effects.

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

Toxicity to fish : LC50 (Fish): > 1 - 10 mg/l

aquatic invertebrates

Toxicity to daphnia and other : LC50 (Daphnia (water flea)): > 1 - 10 mg/l

Toxicity to microorganisms EC50 (Bacteria): > 1 - 10 mg/l

Ecotoxicology Assessment

Chronic aquatic toxicity Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Components:

2-butoxyethyl acetate:

Biodegradability Result: Biodegradable

n-butyl acetate:

Biodegradability Result: Biodegradable

Biodegradation: 83 % Exposure time: 28 d

Method: OECD Test Guideline 301D

Degradation half life: 78 d Stability in water

pH: 8

Hydrolyses slowly.

Photodegradation Decomposes rapidly in contact with light.

12.3 Bioaccumulative potential

Components:

2-ethoxy-1-methylethyl acetate:

Partition coefficient: n-

octanol/water

: log Pow: 0,76

2-butoxyethyl acetate:

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Partition coefficient: n-

octanol/water

log Pow: 1,51

n-butyl acetate:

Bioaccumulation : Bioconcentration factor (BCF): 15

Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

log Pow: 1,81

Hydrocarbons, C9 aromatics:

Partition coefficient: n-

octanol/water

log Pow: < 4

ethyl 3-ethoxypropionate:

Partition coefficient: n-

octanol/water

log Pow: 1,35

12.4 Mobility in soil

Components:

Hydrocarbons, C9 aromatics:

Mobility : Medium: Air

Content: 92,9 %

Medium: Water Content: 3,5 %

Medium: Soil Content: 1,9 %

: Medium: Sediment Content: 1,8 %

Distribution among environ-

mental compartments

Koc: 1,71 - 14,70 Mobile in soils

The product is insoluble and floats on water.

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.

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12.6 Other adverse effects

Product:

Endocrine disrupting poten-

tial

This substance/mixture does not contain components considered to have endocrine disrupting properties for environment

according to UK REACH Article 57(f).

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Harmful to aquatic 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 chemi-

cal 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
IATA : UN 1263

14.2 UN proper shipping name

ADN : PAINT
ADR : PAINT
RID : PAINT
IMDG : PAINT

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IATA Paint

14.3 Transport hazard class(es)

Class Subsidiary risks

ADN 3 **ADR** 3 **RID** 3 **IMDG** 3 **IATA** 3

14.4 Packing group

ADN

Ш Packing group Classification Code F1 Hazard Identification Number : 30 Labels 3

ADR

Packing group Ш Classification Code F1 Hazard Identification Number : 30 Labels 3 Tunnel restriction code (D/E)

RID

Packing group Ш Classification Code F1 Hazard Identification Number : 30 Labels 3

IMDG

Packing group Ш Labels 3 **EmS Code** F-E, <u>S-E</u>

IATA (Cargo)

Packing instruction (cargo 366

aircraft)

Packing instruction (LQ) Y344 Packing group Ш

Labels Flammable Liquids

355

IATA (Passenger)

Packing instruction (passen: :

ger aircraft)

Packing instruction (LQ) Y344 Packing group Ш

Labels Flammable Liquids

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14.5 Environmental hazards

ADN

Environmentally hazardous no

Environmentally hazardous no

Environmentally hazardous no

IMDG

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 mix-

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) Conditions of restriction for the fol-

lowing entries should be considered:

Number on list 3

UK REACH Candidate list of substances of very high

concern (SVHC) for Authorisation

Not applicable

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

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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 properties as regards flammability and environmental hazards as the products referred to in points (a)

to (d)

Other regulations:

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 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.

H317 : May cause an allergic skin reaction.

H332 : Harmful 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 abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Long-term (chronic) aquatic hazard

Asp. Tox. : Aspiration hazard Flam. Liq. : Flammable liquids 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

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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)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

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

Further information

Classification of the mixture:

Classification procedure:

| Flam. Liq. 3 | H226 | Based on product data or assessment |
|--------------|------|-------------------------------------|
| Skin Sens. 1 | H317 | Calculation method |
| STOT SE 3 | H336 | Calculation method |

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STOT SE 3 H335 Calculation method

Aquatic Chronic 3 H412 Calculation method

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