

SAFETY DATA SHEET

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



MOBIHEL QDRY THINNER

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 13.07.2021 |
| 2.0 | 21.06.2024 | MAT000480788 | Date of first issue: 13.07.2021 |
| | | GB/EN | |

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

1.1 Product identifier

Trade name : MOBIHEL QDRY THINNER

Product code : 480788

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 : 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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|--|--|
| Flammable liquids, Category 2 | H225: Highly flammable liquid and vapour. |
| Skin irritation, Category 2 | H315: Causes skin irritation. |
| Serious eye damage, Category 1 | H318: Causes serious eye damage. |
| Reproductive toxicity, Category 2 | H361d: Suspected of damaging the unborn child. |
| Specific target organ toxicity - single exposure, Category 3, Central nervous system | H336: May cause drowsiness or dizziness. |
| Specific target organ toxicity - repeated exposure, Category 2 | H373: May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard, Category 1 | H304: May be fatal if swallowed and enters airways. |
| 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 | : |  |  |  |  |
| Signal word | : | Danger | | | |
| Hazard statements | : | H225 | Highly flammable liquid and vapour. | | |
| | | H304 | May be fatal if swallowed and enters airways. | | |
| | | H315 | Causes skin irritation. | | |
| | | H318 | Causes serious eye damage. | | |
| | | H336 | May cause drowsiness or dizziness. | | |
| | | H361d | Suspected of damaging the unborn child. | | |
| | | H373 | May cause damage to organs through prolonged or repeated exposure. | | |
| | | 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. | | |
| | | P260 | Do not breathe mist or vapours. | | |
| | | P280 | Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. | | |
| | | Response: | | | |
| | | P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER/ doctor. | | |
| | | P305 + P351 + P338 + P310 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. | | |
| | | P331 | Do NOT induce vomiting. | | |

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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:

acetone
toluene
hydrocarbons, C6-C7, isoalkanes, cyclic, <5% n-hexane
butan-1-ol

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) |
|---|---|---|--------------------------|
| acetone | 67-64-1 200-662-2 606-001-00-8 01-2119471330-49 | Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) | >= 30 - < 50 |
| toluene | 108-88-3 203-625-9 601-021-00-3 01-2119471310-51 | Flam. Liq. 2; H225 Skin Irrit. 2; H315 Repr. 2; H361d STOT SE 3; H336 (Central nervous system) STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Chronic 3; H412 | >= 30 - < 50 |
| hydrocarbons, C6-C7, isoalkanes, cyclic, <5% n-hexane | 64742-49-0 01-2119486291-36 | Flam. Liq. 2; H225 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411 | >= 10 - < 20 |
| n-butyl acetate | 123-86-4 204-658-1 607-025-00-1 | Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous | >= 1 - < 10 |

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| | 01-2119485493-29 | system) | |
| 1-butanol | 71-36-3 200-751-6 603-004-00-6 01-2119484630-38 | Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system) | $\geq 3 - < 10$ |
| hexane | 110-54-3 203-777-6 601-037-00-0 01-2119480412-44 | Flam. Liq. 2; H225 Skin Irrit. 2; H315 Repr. 2; H361f STOT SE 3; H336 (Central nervous system) STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 specific concentration limit STOT RE 2; H373 $\geq 5\%$ | $\geq 0,25 - < 1$ |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
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 skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tis-

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sue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty
of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Risks : May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye damage.
May cause drowsiness or dizziness.
Suspected of damaging the unborn child.
May cause damage to organs through prolonged or repeated
exposure.

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 substance or mixture

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water
courses.

Hazardous combustion products : No hazardous combustion products are known

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5.3 Advice for firefighters

- Special protective equipment : In the event of fire, wear self-contained breathing apparatus. for firefighters
- 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 separately 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.
Ensure adequate ventilation.
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.

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.

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Smoking, eating and drinking should be prohibited in the application 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.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.

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). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : 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, 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 storage 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.

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 of exposure) | Control parameters | Basis |
|---------------------------------|----------|-------------------------------|--------------------------------------|------------|
| acetone | 67-64-1 | TWA | 500 ppm 1.210 mg/m ³ | GB EH40 |
| | | STEL | 1.500 ppm 3.620 mg/m ³ | GB EH40 |
| | | TWA | 500 ppm 1.210 mg/m ³ | 2000/39/EC |
| Further information: Indicative | | | | |
| toluene | 108-88-3 | TWA | 50 ppm | GB EH40 |

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| | | | 191 mg/m3 | |
| | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | |
| | | STEL | 100 ppm 384 mg/m3 | GB EH40 |
| | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | |
| | | TWA | 50 ppm 192 mg/m3 | 2006/15/EC |
| | Further information: Indicative, Identifies the possibility of significant uptake through the skin | | | |
| | | STEL | 100 ppm 384 mg/m3 | 2006/15/EC |
| | Further information: Indicative, Identifies the possibility of significant uptake through the skin | | | |
| 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 information: Indicative | | | |
| | | TWA | 50 ppm 241 mg/m3 | 2019/1831/E U |
| | Further information: Indicative | | | |
| butan-1-ol | 71-36-3 | STEL | 50 ppm 154 mg/m3 | GB EH40 |
| | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | |
| n-hexane | 110-54-3 | TWA | 20 ppm 72 mg/m3 | GB EH40 |
| | | TWA | 20 ppm 72 mg/m3 | 2006/15/EC |
| | Further information: Indicative | | | |

Derived No Effect Level (DNEL):

according to Regulation (EC) No. 1907/2006

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|----------------|-----------|-----------------|----------------------------|------------|
| acetone | Consumers | Inhalation | Long-term systemic effects | 200 mg/m3 |
| | Workers | Inhalation | Acute local effects | 2420 mg/m3 |
| | Workers | Inhalation | Long-term systemic effects | 1210 mg/m3 |
| | Consumers | Oral | Long-term systemic effects | 62 mg/kg |

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|---|-----------|------------|----------------------------|--------------------|
| | Consumers | Dermal | Long-term systemic effects | 62 mg/kg |
| | Workers | Dermal | Long-term systemic effects | 186 mg/kg |
| toluene | Workers | Inhalation | Long-term systemic effects | 192 mg/m3 |
| | Workers | Inhalation | Long-term local effects | 192 mg/m3 |
| | Consumers | Inhalation | Acute systemic effects | 226 mg/m3 |
| | Consumers | Inhalation | Acute local effects | 226 mg/m3 |
| hydrocarbons, C6-C7, isoalkanes, cyclic, <5% n-hexane | Workers | Inhalation | Long-term systemic effects | 5306 mg/m3 |
| | Consumers | Inhalation | Long-term systemic effects | 1131 mg/m3 |
| | Consumers | Oral | Long-term systemic effects | 1301 mg/kg bw/day |
| | Workers | Dermal | Long-term systemic effects | 13964 mg/kg bw/day |
| | Consumers | Dermal | Long-term systemic effects | 1377 mg/kg bw/day |
| n-butyl acetate | Workers | Inhalation | Acute systemic effects | 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 effects | 300 mg/m3 |
| | Consumers | Inhalation | Acute systemic effects | 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 effects | 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 effects | 11 mg/kg bw/day |
| butan-1-ol | Workers | Inhalation | Long-term local effects | 310 mg/m3 |

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|--|-----------|------------|----------------------------|--------------------|
| | Consumers | Inhalation | Long-term systemic effects | 55,357 mg/m3 |
| | Consumers | Inhalation | Long-term local effects | 155 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 3,125 mg/kg bw/day |
| | Consumers | Oral | Long-term systemic effects | 1,562 mg/kg bw/day |

Predicted No Effect Concentration (PNEC):

according to Regulation (EC) No. 1907/2006

| Substance name | Environmental Compartment | Value |
|-----------------|---------------------------|--------------------------------|
| acetone | Soil | 29,5 mg/kg |
| | Marine water | 1,06 mg/l |
| | Fresh water | 10,6 mg/l |
| | Marine sediment | 3,04 mg/l |
| | Fresh water sediment | 30,4 mg/l |
| toluene | Sewage treatment plant | 100 mg/l |
| | Soil | 2,89 mg/kg dry weight (d.w.) |
| | Marine water | 0,68 mg/l |
| | Fresh water | 0,68 mg/l |
| | Marine sediment | 16,39 mg/kg dry weight (d.w.) |
| | Fresh water sediment | 16,39 mg/kg dry weight (d.w.) |
| n-butyl acetate | Sewage treatment plant | 13,61 mg/l |
| | Intermittent use/release | 0,68 mg/l |
| | 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 |
| butan-1-ol | Intermittent use/release | 0,36 mg/l |
| | Soil | 0,0166 mg/kg dry weight (d.w.) |
| | Marine water | 0,0082 mg/l |
| | Fresh water | 0,082 mg/l |
| | Marine sediment | 0,0324 mg/kg dry weight (d.w.) |
| | Fresh water sediment | 0,324 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 2476 mg/l |
| | Intermittent use/release | 2,25 mg/l |

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8.2 Exposure controls

Personal protective equipment

| | | |
|--------------------------|---|---|
| Eye/face protection | : | Equipment should conform to EN 166 Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems. |
| Hand protection | : | |
| Gloves | : | 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 concentration of the dangerous substance at the work place. |
| Respiratory protection | : | Wear a full face respirator conforming to EN136 with Type A/P2 filter or better. Self-contained closed-circuit breathing apparatus compressed (EN 145) In the case of aerosol and mist formation use an approved respirator filter (EN 141). |

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 | : | -95,0 °C (calculation method (principal components, lowest value)) |
| Boiling point/boiling range | : | 56 °C (calculation method (principal components, lowest value)) |
| Flash point | : | -18 °C (calculation method (principal components, lowest value)) Method: ISO 3679, closed cup |
| Evaporation rate | : | No data available |

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| Flammability (solid, gas) | : | Static-accumulating flammable liquid., Combustible Solids |
| Upper explosion limit / Upper flammability limit | : | 13 %(V) (calculation method (principal components, highest value)) |
| Lower explosion limit / Lower flammability limit | : | 1,2 %(V) (calculation method (principal components, highest value)) |
| Vapour pressure | : | < 1.100 hPa (calculation method (principal components, highest value)) (50 °C) |
| Relative vapour density | : | 4 (calculation method (principal components, highest value)) |
| Relative density | : | 0,79 (calculation method (principal components, highest value)) |
| Density | : | 0,804 g/cm ³ |
| Solubility(ies) | | |
| Water solubility | : | immiscible, partly soluble |
| Solubility in other solvents | : | No data available |
| Partition coefficient: n-octanol/water | : | log Pow: 2,65 (calculation method (principal components, highest value)) |
| Ignition temperature | : | 425 °C (calculation method (principal components, highest value)) |
| Decomposition temperature | : | No decomposition if used as directed. Hazardous decomposition products formed under fire conditions. |
| Viscosity | | |
| Viscosity, kinematic | : | < 20,5 mm ² /s (40 °C) |
| Explosive properties | : | Not applicable |

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Oxidizing properties : Sustains combustion

9.2 Other information

No data available
VOC : (Directive 2010/75/EU of 24 November 2010 on industrial
emissions (integrated pollution prevention and control))
98 %

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

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Components:

acetone:

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

toluene:

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg
Acute inhalation toxicity : LC50 (Rat): > 28 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

n-butyl acetate:

Acute oral toxicity : LD50 Oral (Rat): >= 10.760 mg/kg
Acute dermal toxicity : LD50 (Rabbit): >= 5.000 mg/kg

butan-1-ol:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.
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

Causes skin irritation.
Causes skin irritation.

Product:

Remarks : Extremely corrosive and destructive to tissue.

Components:

toluene:

Result : irritating

butan-1-ol:

Result : irritating

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n-hexane:

Result : irritating

Serious eye damage/eye irritation

Causes serious eye damage.
Causes serious eye damage.

Product:

Remarks : May cause irreversible eye damage.

Components:

acetone:

Result : Eye irritation

butan-1-ol:

Result : Corrosive

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified due to lack of data.

Germ cell mutagenicity

Not classified based on available information.
Not classified due to lack of data.

Carcinogenicity

Not classified based on available information.
Not classified due to lack of data.

Reproductive toxicity

Suspected of damaging the unborn child.
Suspected of damaging the unborn child.

Components:

toluene:

Reproductive toxicity - As- : Some evidence of adverse effects on sexual function and

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assessment fertility ,and/or on development, based on animal experiments.

n-hexane:

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility ,and/or on development, based on animal experiments.

STOT - single exposure

May cause drowsiness or dizziness.
May cause drowsiness or dizziness.

Components:

acetone:

Assessment : May cause drowsiness or dizziness.

toluene:

Assessment : May cause drowsiness or dizziness.

hydrocarbons, C6-C7, isoalkanes, cyclic, <5% n-hexane:

Assessment : May cause drowsiness or dizziness.

n-butyl acetate:

Assessment : May cause drowsiness or dizziness.

butan-1-ol:

Assessment : May cause drowsiness or dizziness.

Assessment : May cause respiratory irritation.

n-hexane:

Assessment : May cause drowsiness or dizziness.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.
May cause damage to organs through prolonged or repeated exposure.

Components:

toluene:

Assessment : May cause damage to organs through prolonged or repeated exposure.

n-hexane:

Assessment : May cause damage to organs through prolonged or repeated

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exposure.

Aspiration toxicity

May be fatal if swallowed and enters airways.
May be fatal if swallowed and enters airways.

Components:

toluene:

May be fatal if swallowed and enters airways.

hydrocarbons, C6-C7, isoalkanes, cyclic, <5% n-hexane:

May be fatal if swallowed and enters airways.

n-hexane:

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:

acetone:

Toxicity to fish : LC50 (Fish): > 1.000 mg/l

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)): > 1.000 mg/l

Toxicity to microorganisms : EC50 (Bacteria): > 1.000 mg/l

toluene:

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

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hydrocarbons, C6-C7, isoalkanes, cyclic, <5% n-hexane:

Ecotoxicology Assessment

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

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

butan-1-ol:

Toxicity to fish : LC50 (Fish): > 1.000 mg/l
Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)): > 1.000 mg/l
Toxicity to microorganisms : EC50 (Bacteria): > 1.000 mg/l

n-hexane:

Ecotoxicology Assessment

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

12.2 Persistence and degradability

Components:

n-butyl acetate:

Biodegradability : Result: Biodegradable
Biodegradation: 83 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

Stability in water : Degradation half life: 78 d
pH: 8
Hydrolyses slowly.

Photodegradation : Decomposes rapidly in contact with light.

12.3 Bioaccumulative potential

Components:

acetone:

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Partition coefficient: n-octanol/water : log Pow: -0,24

toluene:

Partition coefficient: n-octanol/water : log Pow: 2,65

n-butyl acetate:

Bioaccumulation : Bioconcentration factor (BCF): 15
Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 1,81

butan-1-ol:

Partition coefficient: n-octanol/water : log Pow: 0,785

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

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

12.6 Other adverse effects

Product:

Endocrine disrupting potential : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).
Additional ecological information : 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 chemical or used container.
Send to a licensed waste management company.

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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 RELATED MATERIAL |
| ADR | : PAINT RELATED MATERIAL |
| RID | : PAINT RELATED MATERIAL |
| IMDG | : PAINT RELATED MATERIAL |
| IATA | : Paint related material |

14.3 Transport hazard class(es)

| | Class | Subsidiary risks |
|------|-------|------------------|
| ADN | : 3 | |
| ADR | : 3 | |
| RID | : 3 | |
| IMDG | : 3 | |
| IATA | : 3 | |

14.4 Packing group

| | |
|------------------------------|--------------------------|
| ADN | |
| Packing group | : II |
| Classification Code | : F1 |
| Hazard Identification Number | : 33 |
| Labels | : 3 |
| Remarks | : Special Provision 640D |
| ADR | |
| Packing group | : II |
| Classification Code | : F1 |
| Hazard Identification Number | : 33 |

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Labels : 3
Tunnel restriction code : (D/E)
Remarks : Special Provision 640D

RID

Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3
Remarks : Special Provision 640D

IMDG

Packing group : II
Labels : 3
EmS Code : F-E, S-E

IATA (Cargo)

Packing instruction (cargo aircraft) : 364
Packing instruction (LQ) : Y341
Packing group : II
Labels : Flammable Liquids

IATA (Passenger)

Packing instruction (passenger aircraft) : 353
Packing instruction (LQ) : Y341
Packing group : II
Labels : Flammable Liquids

14.5 Environmental hazards

ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

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.

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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: Number on list 3 toluene (Number on list 48) |
| 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 Britain) | : | Not applicable |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer | : | Not applicable |
| Regulation (EU) 2019/1148 on the marketing and use of explosives precursors | : | acetone |
| 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 2015 (COMAH) | P5c | FLAMMABLE LIQUIDS |
| Volatile organic compounds | : | Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 98 % |

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

| | | |
|------|---|-------------------------------------|
| H225 | : | Highly flammable liquid and vapour. |
| H226 | : | Flammable liquid and vapour. |

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| | |
|-------|--|
| H302 | : Harmful if swallowed. |
| H304 | : May be fatal if swallowed and enters airways. |
| H315 | : Causes skin irritation. |
| H318 | : Causes serious eye damage. |
| H319 | : Causes serious eye irritation. |
| H335 | : May cause respiratory irritation. |
| H336 | : May cause drowsiness or dizziness. |
| H361d | : Suspected of damaging the unborn child. |
| H361f | : Suspected of damaging fertility. |
| H373 | : May cause damage to organs through prolonged or repeated exposure. |
| H411 | : Toxic to aquatic life with long lasting effects. |
| H412 | : Harmful 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 |
| Eye Dam. | : Serious eye damage |
| Eye Irrit. | : Eye irritation |
| Flam. Liq. | : Flammable liquids |
| Repr. | : Reproductive toxicity |
| Skin Irrit. | : Skin irritation |
| STOT RE | : Specific target organ toxicity - repeated exposure |
| 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 |
| 2006/15/EC | : Europe. 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 |
| 2000/39/EC / TWA | : Limit Value - eight hours |
| 2006/15/EC / TWA | : Limit Value - eight hours |
| 2006/15/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 car-

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rying 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. 2 | H225 | Based on product data or assessment |
| Skin Irrit. 2 | H315 | Calculation method |
| Eye Dam. 1 | H318 | Calculation method |
| Repr. 2 | H361d | Calculation method |
| STOT SE 3 | H336 | Calculation method |
| STOT RE 2 | H373 | Calculation method |
| Asp. Tox. 1 | H304 | Calculation method |
| Aquatic Chronic 3 | H412 | Calculation method |

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