

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), amended by
Regulation (EU) 2020/878



HS-LACQUER VIKTOR 97

Creation date 23rd January 2026 Version 7.0

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

- 1.1. Product identifier**
Substance / mixture HS-LACQUER VIKTOR 97
UFI mixture
MA80-W0FU-V003-YCY1
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Heat-weldable lacquer.
Intended for professional/industrial use
Mixture uses advised against
The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**
Manufacturer
Name or trade name Viktor Lacquers s.r.o.
Address U Jatek 1551, Nové Město na Moravě, 59231
Czech Republic
Identification number (CRN) 09344781
VAT number CZ09344781
Phone +420 566 618 550
Email info@viktorlac.com
Web address www.viktorlac.com
- Competent person responsible for the safety data sheet**
Name Viktor Lacquers s.r.o.
Email info@viktorlac.com
- 1.4. Emergency telephone number**
European emergency number: 112

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008
The mixture is classified as dangerous.
- Flam. Liq. 2, H225
Eye Irrit. 2, H319
STOT SE 3, H336
Aquatic Chronic 1, H410
- Most serious adverse physico-chemical effects**
Highly flammable liquid and vapour.
- Most serious adverse effects on human health and the environment**
Causes serious eye irritation. May cause drowsiness or dizziness. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

ethyl acetate
butanone
propyl acetate

Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

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H336 May cause drowsiness or dizziness.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/eye protection.
P312 Call a POISON CENTER if you feel unwell.
P370+P378 In case of fire: Use powder extinguisher/sand/carbon dioxide to extinguish.
P391 Collect spillage.
P403+P235 Store in a well-ventilated place. Keep cool.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

| Identification numbers | Substance name | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note |
|---------------------------------------------------------------------------------------------------|------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Index: 607-022-00-5 CAS: 141-78-6 EC: 205-500-4 Registration number: 01-2119475103-46 | ethyl acetate | 25-50 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066 | 2 |
| Index: 606-002-00-3 CAS: 78-93-3 EC: 201-159-0 | butanone | 10-20 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066 | 2, 3 |
| Index: 607-024-00-6 CAS: 109-60-4 EC: 203-686-1 | propyl acetate | 10-20 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066 | 1 |
| Index: 601-009-00-8 CAS: 540-84-1 EC: 208-759-1 | 2,2,4-trimethylpentane | 1-4 | Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) | 1 |
| Index: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 | n-butyl acetate | 0-5 | Flam. Liq. 3, H226 STOT SE 3, H336 EUH066 | 2 |

Notes

- Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- A substance for which exposure limits are set.
- Drug precursor

Full text of all classifications and hazard statements is given in the section 16.

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SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Rinse skin with water or shower.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

Rinse out the mouth with water and provide 0.2-0.5 L of water. Provide medical treatment if the person has any health problems.

4.2. Most important symptoms and effects, both acute and delayed

If inhaled

May cause drowsiness or dizziness.

If on skin

Not expected.

If in eyes

Causes serious eye irritation.

If swallowed

Irritation, nausea.

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Highly flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

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6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. No smoking. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Store locked up. Keep container tightly closed. Keep cool.

The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union

Commission Directive (EU) 2017/164

| Substance name (component) | Type | Value |
|-------------------------------|----------------|------------------------|
| ethyl acetate (CAS: 141-78-6) | OEL 8 hours | 734 mg/m ³ |
| | OEL 8 hours | 200 ppm |
| | OEL 15 minutes | 1468 mg/m ³ |
| | OEL 15 minutes | 400 ppm |

European Union

Commission Directive (EU) 2019/1831

| Substance name (component) | Type | Value |
|---------------------------------|----------------|-----------------------|
| n-butyl acetate (CAS: 123-86-4) | OEL 8 hours | 241 mg/m ³ |
| | OEL 8 hours | 50 ppm |
| | OEL 15 minutes | 723 mg/m ³ |
| | OEL 15 minutes | 150 ppm |

European Union

Commission Directive 2000/39/EC

| Substance name (component) | Type | Value |
|----------------------------|----------------|-----------------------|
| butanone (CAS: 78-93-3) | OEL 8 hours | 600 mg/m ³ |
| | OEL 8 hours | 200 ppm |
| | OEL 15 minutes | 900 mg/m ³ |
| | OEL 15 minutes | 300 ppm |

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| | | | |
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DNEL

| butanone | | | | |
|---------------------|-------------------|-----------------------|--------------------------|--------|
| Workers / consumers | Route of exposure | Value | Effect | Source |
| Workers | Dermal | 1161 mg/kg | Chronic effects systemic | |
| Workers | Inhalation | 600 mg/m ³ | Chronic effects systemic | |
| Consumers | Dermal | 412 mg/kg | Chronic effects systemic | |
| Consumers | Inhalation | 106 mg/m ³ | Chronic effects systemic | |

| ethyl acetate | | | | |
|---------------------|-------------------|------------------------|--------------------------|--------|
| Workers / consumers | Route of exposure | Value | Effect | Source |
| Workers | Inhalation | 1468 mg/m ³ | Acute effects systemic | lit. |
| Workers | Inhalation | 1468 mg/m ³ | Acute effects local | lit. |
| Workers | Inhalation | 734 mg/m ³ | Chronic effects systemic | lit. |
| Workers | Inhalation | 734 mg/m ³ | Chronic effects local | lit. |
| Workers | Dermal | 63 mg/kg bw/day | Chronic effects systemic | lit. |
| Consumers | Inhalation | 374 mg/m ³ | Acute effects systemic | lit. |
| Consumers | Inhalation | 734 mg/m ³ | Acute effects local | lit. |
| Consumers | Inhalation | 367 mg/m ³ | Chronic effects systemic | lit. |
| Consumers | Inhalation | 367 mg/m ³ | Chronic effects local | lit. |
| Consumers | Dermal | 37 mg/kg bw/day | Chronic effects systemic | lit. |
| Consumers | Oral | 4.5 mg/kg bw/day | Chronic effects systemic | lit. |

| n-butyl acetate | | | | |
|---------------------|-------------------|------------------------|--------------------------|--------|
| Workers / consumers | Route of exposure | Value | Effect | Source |
| Workers | Inhalation | 300 mg/m ³ | Chronic effects local | |
| Workers | Inhalation | 600 mg/m ³ | Acute effects local | |
| Workers | Dermal | 11 mg/kg bw/day | Chronic effects systemic | |
| Workers | Dermal | 11 mg/kg bw/day | Acute effects systemic | |
| Consumers | Inhalation | 35.7 mg/m ³ | Chronic effects local | |
| Consumers | Inhalation | 300 mg/m ³ | Acute effects local | |
| Consumers | Dermal | 6 mg/kg bw/day | Acute effects systemic | |
| Consumers | Dermal | 6 mg/kg bw/day | Chronic effects systemic | |
| Consumers | Oral | 2 mg/kg bw/day | Chronic effects systemic | |
| Consumers | Oral | 2 mg/kg bw/day | Acute effects systemic | |
| Workers | Inhalation | 300 mg/m ³ | Chronic effects systemic | |
| Workers | Inhalation | 600 mg/m ³ | Acute effects systemic | |
| Consumers | Inhalation | 35.7 mg/m ³ | Chronic effects systemic | |
| Consumers | Inhalation | 300 mg/m ³ | Acute effects systemic | |

| propyl acetate | | | | |
|---------------------|-------------------|-----------------------|--------------------------|--------|
| Workers / consumers | Route of exposure | Value | Effect | Source |
| Consumers | Inhalation | 210 mg/m ³ | Chronic effects local | |
| Consumers | Inhalation | 420 mg/m ³ | Acute effects local | |
| Consumers | Inhalation | 149 mg/m ³ | Chronic effects systemic | |
| Workers | Inhalation | 420 mg/m ³ | Chronic effects local | |
| Workers | Inhalation | 840 mg/m ³ | Acute effects local | |
| Consumers | Inhalation | 298 mg/m ³ | Chronic effects local | |

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PNEC

| butanone | | |
|---------------------|--------------|--------|
| Route of exposure | Value | Source |
| Fresh water | 55.8 mg/l | |
| Marine water | 55.8 mg/l | |
| Freshwater sediment | 284.74 mg/kg | |
| Sea sediments | 287.7 mg/kg | |
| Soil (agricultural) | 22.5 mg/kg | |

| ethyl acetate | | |
|------------------------------------|------------------------------------------|--------|
| Route of exposure | Value | Source |
| Freshwater environment | 0.26 mg/l | lit. |
| Marine water | 0.026 mg/l | lit. |
| Freshwater sediment | 1.25 mg/kg of dry substance of sediment | lit. |
| Sea sediments | 0.125 mg/kg of dry substance of sediment | lit. |
| Soil (agricultural) | 0.24 mg/kg of dry substance of soil | lit. |
| Microorganisms in sewage treatment | 650 mg/l | lit. |

| n-butyl acetate | | |
|------------------------------------|--------------|--------|
| Route of exposure | Value | Source |
| Seawater (intermittent release) | 0.36 mg/l | |
| Freshwater environment | 0.18 mg/l | |
| Microorganisms in sewage treatment | 35.6 mg/l | |
| Marine water | 0.018 mg/l | |
| Sea sediments | 0.0981 mg/kg | |
| Soil (agricultural) | 0.0903 mg/kg | |
| Freshwater sediment | 0.981 mg/kg | |

| propyl acetate | | |
|------------------------------------|-------------|--------|
| Route of exposure | Value | Source |
| Soil (agricultural) | 0.021 mg/kg | |
| Freshwater sediment | 0.16 mg/kg | |
| Sea sediments | 0.016 mg/kg | |
| Marine water | 0.006 mg/l | |
| Fresh water | 0.06 mg/l | |
| Microorganisms in sewage treatment | 1 mg/l | |

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Other protection: Protective antistatic clothing made of natural fibres (cotton) or synthetic fibres resistant to elevated temperatures. Antistatic footwear. Contaminated skin should be washed thoroughly.

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| Glove material | Thickness | Breakthrough time | Class |
|--------------------|-----------|-------------------|-------|
| Butyl rubber (IIR) | ≥ 0.3 mm | >480 min | 6 |

Respiratory protection

Halfmask with a filter against organic vapours in the poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Collect spillage.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|----------------------------------------------------------|----------------------------------|
| Physical state | liquid |
| Colour | data not available |
| Odour | after solvents |
| Melting point/freezing point | <-40 °C |
| butanone (CAS: 78-93-3) | -86 °C |
| ethyl acetate (CAS: 141-78-6) | -84 °C |
| Boiling point or initial boiling point and boiling range | 80 °C |
| butanone (CAS: 78-93-3) | 79.6 °C |
| ethyl acetate (CAS: 141-78-6) | 77.15 °C |
| Flammability | data not available |
| butanone (CAS: 78-93-3) | inflammable |
| Lower and upper explosion limit | data not available |
| butanone (CAS: 78-93-3) | 1.8 % |
| ethyl acetate (CAS: 141-78-6) | 2.2 % |
| butanone (CAS: 78-93-3) | 11.5 % |
| ethyl acetate (CAS: 141-78-6) | 11.5 % |
| Flash point | -11 °C |
| butanone (CAS: 78-93-3) | -9 °C |
| ethyl acetate (CAS: 141-78-6) | -4.4 °C |
| Auto-ignition temperature | data not available |
| butanone (CAS: 78-93-3) | 404 °C |
| ethyl acetate (CAS: 141-78-6) | 427 °C |
| Decomposition temperature | data not available |
| pH | data not available |
| Kinematic viscosity | data not available |
| Solubility in water | data not available |
| Partition coefficient n-octanol/water (log value) | data not available |
| Vapour pressure | data not available |
| butanone (CAS: 78-93-3) | 126 hPa at 25 °C |
| | 105 hPa at 20 °C |
| ethyl acetate (CAS: 141-78-6) | 124.79 hPa at 20 °C |
| Density and/or relative density | |
| Density | 0.97 g/cm ³ |
| butanone (CAS: 78-93-3) | 0.805 g/cm ³ |
| ethyl acetate (CAS: 141-78-6) | 0.902 g/cm ³ at 20 °C |
| Relative vapour density | data not available |
| Particle characteristics | data not available |

9.2. Other information

| | |
|-----------------------------------|----------------|
| Content of organic solvents (VOC) | 650 g/l |
| Solid content (dry matter) | 30-40 % weight |

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SECTION 10: Stability and reactivity

10.1. Reactivity

No risks of reactions with other substances are known under normal conditions.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

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

Hazardous substances in concentrations exceeding exposure limits may cause acute inhalation poisoning, depending on the concentration and duration of exposure. No toxicological data is available for the mixture.

Acute toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

| butanone | | | | | | | |
|-------------------|------------------|--------|-------------|---------------|----------------------------------|-----|--------|
| Route of exposure | Parameter | Method | Value | Exposure time | Species | Sex | Source |
| Oral | LD ₅₀ | | >2000 mg/kg | | Rat (<i>Rattus norvegicus</i>) | | |
| Dermal | LD ₅₀ | | >2000 mg/kg | | Rabbit | | |
| Inhalation | LC ₅₀ | | >5000 ppm | | | | |

| ethyl acetate | | | | | | | |
|-------------------|------------------|----------|--------------|---------------|----------------------------------|-----|--------|
| Route of exposure | Parameter | Method | Value | Exposure time | Species | Sex | Source |
| Oral | LD ₅₀ | OECD 401 | 4934 mg/kg | | Rabbit | F/M | lit. |
| Dermal | LD ₅₀ | | >20000 mg/kg | | Rabbit | M | lit. |
| Inhalation | LC ₅₀ | | >22.5 mg/l | 6 hours | Rat (<i>Rattus norvegicus</i>) | F/M | lit. |

| n-butyl acetate | | | | | | | |
|-------------------|------------------|----------|--------------|---------------|----------------------------------|-----|--------|
| Route of exposure | Parameter | Method | Value | Exposure time | Species | Sex | Source |
| Oral | LD ₅₀ | | 10760 mg/kg | | Rat (<i>Rattus norvegicus</i>) | | lit. |
| Dermal | LD ₅₀ | OECD 402 | >14000 mg/kg | | Rabbit | | lit. |
| Inhalation | LC ₅₀ | OECD 403 | 0.74 mg/l | 48 hours | Rat (<i>Rattus norvegicus</i>) | | lit. |
| Inhalation | LD ₅₀ | OECD 403 | >21.1 mg/l | 48 hours | Rat (<i>Rattus norvegicus</i>) | | lit. |

| propyl acetate | | | | | | | |
|-------------------|------------------|--------|--------------|---------------|---------|-----|--------|
| Route of exposure | Parameter | Method | Value | Exposure time | Species | Sex | Source |
| Oral | LD ₅₀ | | 8700 mg/kg | | Rat | M | |
| Dermal | LD ₅₀ | | >17800 mg/kg | | Rabbit | M | |

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propyl acetate

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Sex | Source |
|-------------------|-----------|--------|---------|---------------|---------|-----|--------|
| Inhalation | LC50 | | 32 mg/l | 48 hours | Rat | | |

Skin corrosion/irritation

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

Irritation

| butanone | | | |
|-------------------|-------------------|---------------|---------|
| Route of exposure | Result | Exposure time | Species |
| Skin | Moderate irritant | | Rabbit |
| Eye | Highly irritating | | Rabbit |

Serious eye damage/irritation

Causes serious eye irritation. Data for the components of the mixture are not available.

Respiratory or skin sensitisation

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

Sensitization

| ethyl acetate | | | | | | |
|-------------------|-----------------|----------|---------------|------------|-----|--------|
| Route of exposure | Result | Method | Exposure time | Species | Sex | Source |
| | Not sensitizing | OECD 406 | | Guinea-pig | | lit. |

Germ cell mutagenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Carcinogenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Reproductive toxicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Toxicity for specific target organ - single exposure

May cause drowsiness or dizziness. Data for the components of the mixture are not available.

Toxicity for specific target organ - repeated exposure

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

| ethyl acetate | | | | | | | | |
|-------------------|-----------|----------|------------------|---------------|-----------|---------|-----|--------|
| Route of exposure | Parameter | Method | Value | Exposure time | Result | Species | Sex | Source |
| Oral | NOAEL | OECD 410 | 900 mg/kg bw/day | 90-92 days | No effect | | | lit. |

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Aspiration hazard

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

11.2. Information on other hazards

Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

Other information

not available

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life with long lasting effects.

Acute toxicity

| butanone | | | | | | |
|------------------|-----------|---------------|---------------------------------|-------------|---------------------|--------|
| Parameter | Value | Exposure time | Species | Environment | Value determination | Source |
| LC ₅₀ | >100 mg/l | 48 hours | Fish (Leuciscus idus) | | | |
| EC ₅₀ | >100 mg/l | 48 hours | Invertebrates (Daphnia magna) | | | |
| EC ₅₀ | >100 mg/l | 72 days | Algae (Scenedesmus subspicatus) | | | |

| ethyl acetate | | | | | | |
|------------------|------------|---------------|----------------------------------------------------------|-------------|-----------------------------------|--------|
| Parameter | Value | Exposure time | Species | Environment | Value determination | Source |
| LC ₅₀ | 230 mg/l | 96 hours | Fish (Pimephales promelas) | Fresh water | Experimentally, Continuous system | lit. |
| EC ₅₀ | 165 mg/l | 48 hours | Daphnia (Daphnia magna) | Fresh water | Experimentally | lit |
| IC ₅₀ | 346 mg/l | 48 hours | Invertebrates (Artemia salina) | Salt water | Experimentally | lit. |
| LC ₅₀ | 5600 mg/l | 48 hours | Algae and other aquatic plants (Desmodesmus subspicatus) | Fresh water | Experimentally, Static system | lit. |
| NOEC | >1000 mg/l | 48 hours | Algae and other aquatic plants (Scenedesmus subspicatus) | Fresh water | Experimentally | lit. |
| LC ₅₀ | 180 mg/l | 48 hours | Other aquatic organisms (Xenopus laevis) | Fresh water | Experimentally | lit. |
| | 650 mg/l | 16 hours | Microorganisms (Pseudomonas putida) | Fresh water | Experimentally, Static system | lit. |

| n-butyl acetate | | | | | | |
|------------------|---------|---------------|----------------------------|-------------|---------------------|--------|
| Parameter | Value | Exposure time | Species | Environment | Value determination | Source |
| LC ₅₀ | 18 mg/l | 96 hours | Fish (Pimephales promelas) | | | lit. |
| EC ₅₀ | 44 mg/l | 48 hours | Daphnia (Daphnia magna) | | | lit. |

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| n-butyl acetate | | | | | | |
|-------------------|----------|---------------|-----------------------------------------|-------------|---------------------|--------|
| Parameter | Value | Exposure time | Species | Environment | Value determination | Source |
| ErC ₅₀ | 648 mg/l | 72 hours | Algae (Desmodesmus subspicatus) | | | lit. |
| IC ₅₀ | 356 mg/l | 40 hours | Microorganisms (Tetrahymena pyriformis) | | | lit. |

| propyl acetate | | | | | | |
|------------------|-----------|---------------|------------------------------------------------------------------|-------------|---------------------|--------|
| Parameter | Value | Exposure time | Species | Environment | Value determination | Source |
| LC ₅₀ | 60 mg/l | 96 hours | Fish (Pimephales promelas) | | | |
| EC ₅₀ | 91.5 mg/l | 48 hours | Aquatic invertebrates (Daphnia magna) | | | |
| NOEC | 32.1 mg/l | 48 hours | Aquatic invertebrates (Daphnia magna) | | | |
| EC ₅₀ | 672 mg/l | 72 hours | Algae and other aquatic plants (Pseudokirchneriella subcapitata) | | | |
| EC ₀₅ | 170 mg/l | 16 hours | Microorganisms (Pseudomonas putida) | | | |

Chronic toxicity

| ethyl acetate | | | | | | | |
|---------------|--------|------------|---------------|----------------------------|-------------|------------------------------------|--------|
| Parameter | Method | Value | Exposure time | Species | Environment | Value determination | Source |
| NOEC | | <9.65 mg/l | 96 hours | Fish (Pimephales promelas) | Fresh water | Experimentally, Continuous system | lit. |
| NOEC | | 2.4 mg/l | 21 days | Daphnia (Daphnia magna) | Fresh water | Experimentally, Semi static system | lit. |

| n-butyl acetate | | | | | | | |
|-----------------|----------|---------|---------------|-------------------------|-------------|---------------------|--------|
| Parameter | Method | Value | Exposure time | Species | Environment | Value determination | Source |
| NOEC | OECD 211 | 23 mg/l | 21 days | Daphnia (Daphnia magna) | | Read-across | lit. |

12.2. Persistence and degradability

Data for the mixture are not available.

Biodegradability

| ethyl acetate | | | | | | | |
|---------------|--------|-------|---------------|-------------|---------------------|----------------------|--------|
| Parameter | Method | Value | Exposure time | Environment | Value determination | Result | Source |
| DOC | | 69 % | 20 days | Fresh water | Experimentally | Easily biodegradable | lit. |

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| n-butyl acetate | | | | | | | |
|-----------------|-----------|-------|---------------|-------------|---------------------|--------|--------|
| Parameter | Method | Value | Exposure time | Environment | Value determination | Result | Source |
| | OECD 301D | 83 % | 28 days | | | | |

12.3. Bioaccumulative potential

Data for the mixture are not available.

| ethyl acetate | | | | | | | |
|---------------|-------|---------------|-----------------------|-------------|------------------|---------------------|--------|
| Parameter | Value | Exposure time | Species | Environment | Temperature [°C] | Value determination | Source |
| BCF | 30 | 3 days | Fish (Leuciscus idus) | Fresh water | | Experimentally | lit. |
| Log Kow | 0.68 | | | | 25°C | | lit. |

12.4. Mobility in soil

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PMT or vPvM components.

12.5. Results of PBT and vPvB assessment

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PBT or vPvB components.

12.6. Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption in the environment.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

08 01 11* waste paint and varnish containing organic solvents or other hazardous substances

Packaging waste type code

15 01 10* packaging containing residues of or contaminated by hazardous substances

15 02 02* absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

UN 1993

14.2. UN proper shipping name

FLAMMABLE LIQUID, N.O.S. (ethyl acetate, propyl acetate)

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

II

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14.5. Environmental hazards

Yes

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

Not known

Additional information

Hazard identification No.

33

UN number

1993

Classification code

F1

Safety signs

3+hazardous for the environment



Tunnel restriction code

(D/E)

Marine transport - IMDG

EmS (emergency plan)

F-E, S-E

Marine pollutant

Yes

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

| | |
|--------|-------------------------------------------------------|
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Guidelines for safe handling used in the safety data sheet

| | |
|-----------|------------------------------------------------------------------------------------------------|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P280 | Wear protective gloves/eye protection. |
| P312 | Call a POISON CENTER if you feel unwell. |
| P370+P378 | In case of fire: Use powder extinguisher/sand/carbon dioxide to extinguish. |
| P391 | Collect spillage. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |

Other important information about human health protection

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The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

| | |
|---------------------|---------------------------------------------------------------------------------------------------|
| ADR | Agreement concerning the international carriage of dangerous goods by road |
| Aquatic Acute | Hazardous to the aquatic environment |
| Aquatic Chronic | Hazardous to the aquatic environment (chronic) |
| Asp. Tox. | Aspiration hazard |
| BCF | Bioconcentration Factor |
| CAS | Chemical Abstracts Service |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures |
| EC | Identification code for each substance listed in EINECS |
| EC ₅₀ | Concentration of a substance when it is affected 50 % of the population |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EmS | Emergency Response Procedures for Ships Carrying Dangerous Goods |
| EU | European Union |
| EuPCS | European Product Categorisation System |
| Eye Irrit. | Eye irritation |
| Flam. Liq. | Flammable liquid |
| IATA | International Air Transport Association |
| IBC | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals |
| IC ₅₀ | Concentration causing 50% blockade |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| IMO | International Maritime Organization |
| INCI | International Nomenclature of Cosmetic Ingredients |
| ISO | International Organization for Standardization |
| IUPAC | International Union of Pure and Applied Chemistry |
| LC ₅₀ | Lethal concentration of a substance in which it can be expected death of 50% of the population |
| LD ₅₀ | Lethal dose of a substance in which it can be expected death of 50% of the population |
| log K _{ow} | Octanol-water partition coefficient |
| NOAEL | No observed adverse effect level |
| NOEC | No observed effect concentration |
| OEL | Occupational Exposure Limits |
| PBT | Persistent, bioaccumulative and toxic |
| PMT | Persistent, mobile and toxic |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Regulation concerning the International Carriage of Dangerous Goods by Rail |
| Skin Irrit. | Skin irritation |
| STOT SE | Specific target organ toxicity - single exposure |
| UN number | Four-figure identification number of the substance or article taken from the UN Model Regulations |
| UVCB | Substances of unknown or variable composition, complex reaction products or biological materials |
| VOC | Volatile organic compounds |
| vPvB | Very persistent and very bioaccumulative |
| vPvM | Very persistent and very mobile |

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

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REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from
the manufacturer of the substance / mixture, if available - information from registration dossiers.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.