

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date: 21-Sep-2022
Print Date: 13-Apr-2024

Revision Number: 1

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

1.1. Product identifier

Product Name: **UNIVERSAL THINNER SLOW AROMAATVRIJ**
Article number: 400041380730/0060759
UFI: 8YT4-J0H0-X00G-PNA7

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

Product categories [PC]: PC9a - Coatings and paints, thinners, paint removers
PC35 - Washing and cleaning products (including solvent based products)
Sector of uses [SU]: SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
Process categories [PROC]: PROC7 - Industrial spraying
PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC10 - Roller application or brushing
PROC11 - Non industrial spraying
PROC13 - Treatment of articles by dipping and pouring
PROC19 - Hand-mixing with intimate contact and only PPE available
PROC28 - Manual maintenance (cleaning and repair) of machinery
Environmental release categories [ERC]: ERC2 - Formulation of preparations (mixtures)
ERC4 - Industrial use of processing aids in processes and products, not becoming part of articles

1.3. Details of the supplier of the safety data sheet

Supplier: Kluthe Benelux B.V.
Produktieweg 8
NL-2404 Alphen aan den Rijn
Telefon: +31 172/ 516 000
Telefax: +31 172/ 439 494
www.kluthe.com
E-mail address: sds.nl@kluthe.com

1.4. Emergency telephone number

Emergency Telephone: +44 20 3885 0382 (CHEMTREC, 24h/7/365; CCN: 1012799)
CHEMTREC local:
DE: 0800 1817059 AT: +43 1 3649237 CH: +41 435081970
NL: +31 85 888 0596 BE: +32 2 808 32 37 FR: +33 9 75 18 14 07
ES: +34 931768511 PT: +351 308 801 773 IT: +39 02 4555 7031
DK: +45 69 91 85 73 SE: +46 8 525 034 03 FI: +358 9 42419014
PL: +48 22 398 80 29 CZ: +420 228 880 039 SK: +421 2/330 579 72
SI: +386 1 888 80 16 HU: +36 1 808 8425 RO: +40 376 300 026
UK: +44 20 3807 3798

| Emergency Telephone - §45 - (EC)1272/2008 | |
|---|--|
| Austria | +43 1 406 43 43 (Giftinformationszentrale) |
| Bulgaria | +359 2 9154 213 (Pirogov) |
| Italy | Centro Antiveleni di Milano: 02.66101029; Centro Antiveleni di Roma: 06.3054343; |

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| | |
|----------|---|
| | Centro Antiveleni di Roma: 06.49978000; Centro Antiveleni di Roma: 06.68593726; Centro Antiveleni di Pavia: 0382.24444; Centro Antiveleni di Firenze: 055.7947819; Centro Antiveleni di Bergamo: 800.883300; Centro Antiveleni di Foggia: 0881.732326; Centro Antiveleni di Napoli: 081.7472870; Centro Antiveleni di Verona: 800.011.858 |
| Slovakia | +421 2 5477 4166 (NTIC) |
| Hungary | +36 80 201 199; +36 1 476 6464 (ETTSZ) |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

| | |
|--|--------------------------------------|
| Flammable liquids | Category 3 - (H226) |
| Specific target organ toxicity (single exposure) | Category 3 - (H336) Narcotic effects |

2.2. Label elements



Signal word: **Warning**

Hazard components for labeling:

Contains n-Butyl acetate, Hydrocarbons, C9 - 10, n.alcanes, i.alcanes, cyclics, < 2% aromates

Hazard statements:

H226 - Flammable liquid and vapor.

H336 - May cause drowsiness or dizziness.

EU Specific Hazard Statements:

EUH066 - Repeated exposure may cause skin dryness or cracking.

Precautionary Statements - EU (§28, 1272/2008):

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P312 - Call a POISON CENTER or doctor if you feel unwell

P370 + P378 - In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards

No information available.

Endocrine Disruptor Information: No information available

SECTION 3: Composition/information on ingredients

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3.1 Substances

Not applicable

3.2 Mixtures

| Chemical name | CAS No | EC No (EU Index No) | REACH registration number | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Weight-% |
|---|----------|---------------------|---------------------------|---|------------|
| n-Butyl acetate | 123-86-4 | 204-658-1 | 01-2119485493-29 | Flam. Liq. 3 (H226) STOT SE 3 (H336) (EUH066) | 75 - < 100 |
| Hydrocarbons, C9 - 10, n.alkanes, i-alkanes, cyclics, < 2% aromates | - | 927-241-2 | 01-2119471843-32 | Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) STOT SE 3 (H336) Aquatic Chronic 3 (H412) (EUH066) | 5 - < 10 |

Acute Toxicity Estimate:

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

| Chemical name | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapor - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|--|-----------------|-------------------|---|---|--------------------------------------|
| n-Butyl acetate 123-86-4 | 10768 | 17060 | 0.74 | 23.4 | No data available |
| Hydrocarbons, C9 - 10, n.alkanes, i-alkanes, cyclics, < 2% aromates - | 5001 | 2001 | No data available | No data available | No data available |

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|-----------------|--|
| General advice: | Show this safety data sheet to the doctor in attendance. |
| Inhalation: | Remove to fresh air. IF exposed or concerned: Get medical advice/attention. |
| Eye contact: | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. |
| Skin contact: | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. |

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Ingestion: Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician.

Self-protection of the first aider: Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information.

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

Symptoms Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Effects of Exposure No information available.

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

Note to physicians: Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO₂). Water spray. Alcohol resistant foam.

Large Fire: CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media: Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical: Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters: Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

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Other information: Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

For emergency responders: Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions: Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment: Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up: Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Prevention of secondary hazards: Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections: See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling



Advice on safe handling: Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment.

General hygiene considerations: Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible

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materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

7.3. Specific end use(s)

Other information:

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits:

| Chemical name | European Union | Austria | Belgium | Bulgaria | Croatia |
|--|---|--|---|---|---|
| n-Butyl acetate 123-86-4 | STEL: 723 mg/m ³ STEL: 150 ppm TWA: 241 mg/m ³ TWA: 50 ppm | TWA: 50 ppm TWA: 241 mg/m ³ STEL 100 ppm STEL 480 mg/m ³ | TWA: 50 ppm TWA: 238 mg/m ³ STEL: 150 ppm STEL: 712 mg/m ³ | STEL: 723 mg/m ³ STEL: 150 ppm TWA: 241 mg/m ³ TWA: 50 ppm | TWA: 50 ppm TWA: 241 mg/m ³ STEL: 150 ppm STEL: 723 mg/m ³ |
| Chemical name | Cyprus | Czech Republic | Denmark | Estonia | Finland |
| n-Butyl acetate 123-86-4 | STEL: 723 mg/m ³ STEL: 150 ppm TWA: 241 mg/m ³ TWA: 50 ppm | TWA: 241 mg/m ³ Ceiling: 723 mg/m ³ | TWA: 50 ppm TWA: 241 mg/m ³ | TWA: 241 mg/m ³ TWA: 50 ppm STEL: 723 mg/m ³ STEL: 150 ppm | TWA: 50 ppm TWA: 240 mg/m ³ STEL: 150 ppm STEL: 725 mg/m ³ |
| Chemical name | France | Germany TRGS | Germany DFG | Greece | Hungary |
| n-Butyl acetate 123-86-4 | TWA: 50 ppm TWA: 241 mg/m ³ STEL: 150 ppm STEL: 723 mg/m ³ | TWA: 62 ppm TWA: 300 mg/m ³ | TWA: 100 ppm TWA: 480 mg/m ³ Peak: 200 ppm Peak: 960 mg/m ³ | TWA: 50 ppm TWA: 241 mg/m ³ STEL: 150 ppm STEL: 723 mg/m ³ | TWA: 241 mg/m ³ STEL: 723 mg/m ³ |
| Hydrocarbons, C9 - 10, n.alkanes, i-alkanes, cyclics, < 2% aromates - | | | TWA: 50 ppm TWA: 300 mg/m ³ Ceiling / Peak: 100 ppm Ceiling / Peak: 600 mg/m ³ RCP: C9-14 aliphates: STEL: 300 mg/m ³ - 2(II) | | |
| Chemical name | Ireland | Italy MDLPS | Italy AIDII | Latvia | Lithuania |
| n-Butyl acetate 123-86-4 | STEL: 150 ppm STEL: 723 mg/m ³ | TWA: 241 mg/m ³ TWA: 50 ppm STEL: 723 mg/m ³ STEL: 150 ppm | TWA: 50 ppm TWA: 238 mg/m ³ STEL: 200 ppm STEL: 950 mg/m ³ | TWA: 241 mg/m ³ TWA: 50 ppm STEL: 723 mg/m ³ STEL: 150 ppm | TWA: 241 mg/m ³ TWA: 50 ppm STEL: 723 mg/m ³ STEL: 150 ppm |
| Chemical name | Luxembourg | Malta | Netherlands | Norway | Poland |
| n-Butyl acetate 123-86-4 | | STEL: 150 ppm STEL: 723 mg/m ³ TWA: 50 ppm TWA: 214 mg/m ³ | TWA: 241 mg/m ³ STEL: 723 mg/m ³ | TWA: 241 mg/m ³ TWA: 50 ppm STEL: 723 mg/m ³ STEL: 150 ppm | STEL: 720 mg/m ³ TWA: 240 mg/m ³ |
| Chemical name | Portugal | Romania | Slovakia | Slovenia | Spain |
| n-Butyl acetate 123-86-4 | TWA: 50 ppm TWA: 241 mg/m ³ STEL: 150 ppm STEL: 723 mg/m ³ | TWA: 150 ppm TWA: 715 mg/m ³ STEL: 200 ppm STEL: 950 mg/m ³ | TWA: 100 ppm TWA: 500 mg/m ³ Ceiling: 700 mg/m ³ | TWA: 241 mg/m ³ TWA: 50 ppm STEL: 150 ppm STEL: 723 mg/m ³ | TWA: 50 ppm TWA: 241 mg/m ³ STEL: 150 ppm STEL: 723 mg/m ³ |
| Chemical name | Sweden | Switzerland | United Kingdom | Russia | Turkey |
| n-Butyl acetate 123-86-4 | NGV: 50 ppm NGV: 241 mg/m ³ Bindande KGV: 150 ppm Bindande KGV: 723 mg/m ³ | TWA: 50 ppm TWA: 240 mg/m ³ STEL: 150 ppm STEL: 720 mg/m ³ | TWA: 150 ppm TWA: 724 mg/m ³ STEL: 200 ppm STEL: 966 mg/m ³ | TWA: 50 mg/m ³ MAC: 200 mg/m ³ | |

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Biological occupational exposure limits:

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL):

component information:

Worker - inhalative:

Worker - dermal:

Consumer - inhalative:

Consumer - dermal:

Consumer - oral:

Predicted No Effect Concentration (PNEC): No information available

component information:

| Chemical name | n-Butyl acetate CAS: 123-86-4 |
|-----------------------------------|----------------------------------|
| Freshwater | 0.18 mg/L |
| Marine water | 0.018 mg/L |
| Freshwater (intermittent release) | 0.36 mg/L |
| Sewage treatment | 35.6 mg/L |
| Freshwater sediment | 0.981 mg/kg sediment dw |
| Marine sediment | 0.0981 mg/kg sediment dw |
| Soil | 0.0903 mg/kg soil dw |

8.2. Exposure controls

Engineering controls:

Showers, eyewash stations, and ventilation systems.

Personal protective equipment:

The usual precautionary measures for the handling of chemicals have to be observed.



Eye/face protection:

Tight sealing safety goggles.

Hand protection:

Wear suitable gloves. Impervious gloves.

| PPE - Glove material | Glove thickness | Break through time |
|---------------------------------|-----------------|--------------------|
| Butyl caoutchouc (butyl rubber) | 0.7 mm | >=60 min. |

Skin and body protection:

Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

Respiratory protection:

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Recommended Filter Type:

Filtering device (full mask or mouthpiec) with filter: ABEK; 2P3

Environmental exposure controls:

No information available.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | | | | | |
|-------------------------------|-------------------|-------------------|------------|--------|-----------------|
| Appearance | Liquid | | | | |
| Color | colorless | | | | |
| Odor | characteristic | | | | |
| | | | Conditions | Method | Remarks |
| Melting point / melting range | | | | | Not established |
| Boiling point / boiling range | 124 - 165 | °C | | | |
| Flammability | | | | | Not established |
| Decomposition temperature | | | | | not relevant |
| Flash point | ~ 25 | °C | | | |
| Autoignition temperature | 250 | | | | None known |
| Lower explosive limit | 1.1 | Vol% | | | |
| Upper explosion limit | 7.6 | Vol% | | | |
| Vapor pressure | 1.418 | kPa | 20 °C | | |
| Density | ~ 0.865 - 0.875 | g/cm ³ | 20 °C | | |
| Water solubility | < 0.7 | % | | | Miscible |
| pH | | | | | Not applicable |
| pH (as aqueous solution) | | | | | Not established |
| Partition coefficient | | | | | Not established |
| Kinematic viscosity | | | | | Not applicable |
| Odor threshold | | | | | Not established |
| Relative density | | | | | Not established |
| Evaporation rate | | | | | Not established |
| Relative vapor density | no data available | | | | |
| Particle Size | no data available | | | | |
| Particle Size Distribution | no data available | | | | |

9.2. Other information

| | |
|------------------|--------------------------|
| Bulk density: | no data available |
| Softening point | No information available |
| Molecular weight | No information available |

9.2.1. Information with regard to physical hazard classes:

| | |
|----------------------|-------------------|
| Explosive properties | No data available |
| Oxidizing properties | No data available |

9.2.2. Other safety characteristics: No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity: No information available.

10.2. Chemical stability

Stability: Stable under normal conditions.

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Explosion data:

Sensitivity to mechanical impact:

None.

Sensitivity to static discharge:

Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions: None under normal processing.

10.4. Conditions to avoid

Conditions to avoid: Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials: None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products: None known based on information supplied.

SECTION 11: Toxicological information

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

Information on likely routes of exposure:

Product Information:

Inhalation: May cause drowsiness or dizziness.

Eye contact: Specific test data for the substance or mixture is not available.

Skin contact: Specific test data for the substance or mixture is not available.

Ingestion: Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Numerical measures of toxicity:

Acute toxicity: The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral): 25,609.80 mg/kg

ATEmix (dermal): 25,609.80 mg/kg

ATEmix (inhalation-vapor): 25.40 mg/l

Component Information:

| Chemical name | Parameter | Species | Effective dose | Method |
|---------------|-----------|---------|----------------|--------|
|---------------|-----------|---------|----------------|--------|

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| Chemical name | Parameter | Species | Effective dose | Method |
|---|-----------|---------|----------------|----------|
| n-Butyl acetate 123-86-4 | Oral LD50 | Rat | 10768 mg/kg | OECD 423 |
| Hydrocarbons, C9 - 10, n.alcanes, i-alcanes, cyclics, < 2% aromates - | Oral LD50 | Rat | > 5000 mg/kg | OECD 401 |

| Chemical name | Parameters | Species | Effective dose | Method |
|---|-------------|---------|----------------|----------|
| n-Butyl acetate 123-86-4 | Dermal LD50 | Rabbit | > 5000 mg/kg | OECD 402 |
| Hydrocarbons, C9 - 10, n.alcanes, i-alcanes, cyclics, < 2% aromates - | Dermal LD50 | Rabbit | > 2000 mg/kg | OECD 402 |

| Chemical name | Parameters | Species | Effective dose | Exposure time | Method |
|--|-----------------|---------|--------------------------|---------------|----------|
| n-Butyl acetate 123-86-4 | Inhalation LC50 | Rat | 23.4 mg/m ³ | 4 h | OECD 403 |
| Hydrocarbons, C9 - 10, n.alcanes, i-alcanes, cyclics, < 2% aromates - | Inhalation LC50 | Rat | > 5000 mg/m ³ | 8 h | OECD 403 |

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

| | |
|------------------------------------|------------------------------------|
| Skin corrosion/irritation: | No information available. |
| Serious eye damage/eye irritation: | No information available. |
| Respiratory or skin sensitization: | No information available. |
| Germ cell mutagenicity: | No information available. |
| Carcinogenicity: | No information available. |
| Reproductive toxicity: | No information available. |
| STOT - single exposure: | May cause drowsiness or dizziness. |
| STOT - repeated exposure: | No information available. |
| Aspiration hazard: | No information available. |

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No information available.

11.2.2. Other information

No information available.

SECTION 12: Ecological information

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12.1. Toxicity

Ecotoxicity:

fish toxicity:

| Chemical name | Parameter | Species | Effective dose | Exposure time | Method |
|--|-----------|------------------------|----------------|---------------|----------|
| n-Butyl acetate 123-86-4 | LC50 | Pimephales promelas | 17 - 19 mg/L | 96 h | OECD 203 |
| Hydrocarbons, C9 - 10, n.alcanes, i-alcanes, cyclics, < 2% aromates - | LL50 | Oncorhynchus mykiss | 10 - 30 mg/L | 96 h | |

toxicity to crustacea:

| Chemical name | Parameter | Species | Effective dose | Exposure time | Method |
|--|-----------|---------------|----------------|---------------|----------|
| n-Butyl acetate 123-86-4 | EC50 | Daphnia magna | 44 mg/L | 48 h | OECD 202 |
| Hydrocarbons, C9 - 10, n.alcanes, i-alcanes, cyclics, < 2% aromates - | EL50 | Daphnia magna | 22 - 46 mg/L | 48 h | |

Algae Toxicity:

| Chemical name | Parameter | Species | Effective dose | Exposure time | Method |
|--|-----------|-------------------------------------|----------------|---------------|--------|
| n-Butyl acetate 123-86-4 | EC50 | Desmodesmus subspicatus | 674.7 mg/L | 72 h | |
| Hydrocarbons, C9 - 10, n.alcanes, i-alcanes, cyclics, < 2% aromates - | EL50 | Pseudokirchneri ella subcapitata | > 1000 mg/L | 72 h | |

12.2. Persistence and degradability

Persistence and degradability:

| Chemical name | degradation rate | test duration | Rapidly biodegradable | Remarks | Method |
|--|------------------|---------------|--------------------------|---------|--------|
| n-Butyl acetate 123-86-4 | 23 % | 28 d | Yes | | |
| Hydrocarbons, C9 - 10, n.alcanes, i-alcanes, cyclics, < 2% aromates - | 89 % | 28 d | Yes | | |

12.3. Bioaccumulative potential

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Bioaccumulation:

| Chemical name | Partition coefficient | Bioconcentration factor (BCF) |
|--|-----------------------|-------------------------------|
| n-Butyl acetate 123-86-4 | 2,3 | 15 |
| Hydrocarbons, C9 - 10, n.alcanes, i-alcanes, cyclics, < 2% aromates - | 3,6 | |

12.4. Mobility in soil

Mobility in soil: No information available.

Mobility: No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment:

| Chemical name | PBT and vPvB assessment |
|--|---------------------------------|
| n-Butyl acetate 123-86-4 | The substance is not PBT / vPvB |
| Hydrocarbons, C9 - 10, n.alcanes, i-alcanes, cyclics, < 2% aromates - | The substance is not PBT / vPvB |

12.6. Endocrine disrupting properties.

No information available.

12.7. Other adverse effects.

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products: Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging: Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

Waste codes / waste designations according to EWC / AVV: 14 06 03* (other solvents and solvent mixtures)

SECTION 14: Transport information

14.1. UN number

ADR: UN1263
RID: UN1263

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IMDG: UN1263
IATA: UN1263

14.2 UN proper shipping name

ADR: PAINT RELATED MATERIAL
UN1263, PAINT RELATED MATERIAL, 3, III

RID: PAINT RELATED MATERIAL
UN1263, PAINT RELATED MATERIAL, 3, III

IMDG: PAINT RELATED MATERIAL
UN1263, PAINT RELATED MATERIAL, 3, III, (25°C C.C.)

IATA: PAINT RELATED MATERIAL
UN1263, PAINT RELATED MATERIAL, 3, III

14.3. Transport hazard class(es)

ADR: 3
Hazard label(s) 3
Classification code F1
ADR Hazard Id (Kemmler Number) 30
Tunnel restriction code (D/E)
Limited quantity (LQ) 5 L
Excepted quantity E1

RID: 3
Labels 3
Classification code F1

IMDG: 3
Hazard label(s) 3
Limited quantity (LQ) 5 L
Excepted quantity E1
EmS-No. F-E, S-E

IATA: 3
Hazard label(s) 3
Excepted quantity E1

14.4. Packing group

ADR: III
RID: III
IMDG: III
IATA: III

14.5. Environmental hazards

ADR: No
RID: No
IMDG: No

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IATA: No

14.6. Special precautions for user

ADR:
Special Provisions: 163, 650, 367
RID:
Special Provisions: 163, 650, 367
IMDG:
Special Provisions: 163, 223, 367, 955
IATA:
Special Provisions: A3, A72, A192
ERG Code 3L

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

European Union:

Regulation (EC) No. 1907/2006 (Annex II - (EC) No. 2020/878) and Regulation (EC) No. 1272/2008

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work:
Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken

Authorizations and/or restrictions on use:

- This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

| Chemical name | Substance subject to authorization per REACH Annex XIV | Restricted substance per REACH Annex XVII |
|--|--|---|
| n-Butyl acetate 123-86-4 | | 3. 40. 75 |
| Hydrocarbons, C9 - 10, n.alcanes, i-alcanes, cyclics, < 2% aromates - | | 03. 40. |

Persistent Organic Pollutants: Not applicable
(EC) 2019/1021

Dangerous substance category per Seveso Directive (2012/18/EU):

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

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Ozone-depleting substances (ODS) regulation (EC) 1005/2009: Not applicable

volatile organic compounds (VOC) content: Not applicable
acc. reg. 2010/75/EC (20°C): 99.960919500000003 %

National regulations:

Denmark:

| Chemical name | Denmark - MAL |
|-----------------------------|---|
| n-Butyl acetate 123-86-4 | 14 m3/10 g substance MAL factor >0 % by weight [1] |

Germany:

Water hazard class (WGK): slightly hazardous to water (WGK 1) - Classification according to AwSV

| Chemical name | WGK Classification (AwSV) | ID number |
|---|---------------------------|-----------|
| n-Butyl acetate 123-86-4 | 1 | 42 |
| Hydrocarbons, C9 - 10, n.alcanes, i-alcanes, cyclics, < 2% aromates - | 1 | - |

TA Luft (German Air Pollution Control Regulation):
org. substances (Ziffer 5.2.5): 95 - 100%

Storage class (TRGS 510): LGK 3 - Flammable liquids

France:

Occupational Illnesses (R-463-3, France):

| Chemical name | French RG number |
|---|------------------|
| n-Butyl acetate 123-86-4 | RG 84 |
| Hydrocarbons, C9 - 10, n.alcanes, i-alcanes, cyclics, < 2% aromates - | RG 84 |

RG 84 - Conditions caused by occupational use of liquid organic solvents

Netherlands:

Water contaminating class (Netherlands): B4

Austria:

Flammable Liquids Regulations, VbF Flammable liquids Cat. 3

Poland:

Ordinance of the Minister of Family, Labor and Social Policy dated June 12, 2018 on the highest permissible concentrations and intensities of harmful factors for health in the work environment (Dz. U. 2018 item 1286, as amended)
Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21; as amended)

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Act on chemical substances and their mixtures of February 25, 2011. (Journal of Laws No. 63, item 322; as amended)
Regulation of the Minister of Labor and Social Policy of September 26, 1997 on general regulations of safety and hygiene at work (Dz. U. of 2003, No. 169, item 1650; as amended).

Hungary: _

Decree No 44/2000 (XII.27.) of the Ministry of Economic Affairs and Labour of the Republic of Hungary on certain procedures and activities
Joint Decree No. 5/2020 ITM on Chemical Safety at Work 178/2017 (VII. 5.)
Government Decree on the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) „A“ and „B“ of the European Agreement on Road Transport

International Inventories:

| | |
|---------------|-----------------|
| TSCA | Complies |
| DSL/NDSL | Complies |
| EINECS/ELINCS | Complies |
| ENCS | Does not comply |
| IECSC | Complies |
| KECL | Complies |
| PICCS | Complies |
| AICS | Complies |
| NZIoC | Complies |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
NZIoC - New Zealand Inventory of Chemicals
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report: No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet:

Full text of H-Statements referred to under section 3:

EUH066 - Repeated exposure may cause skin dryness or cracking

H226 - Flammable liquid and vapor

H304 - May be fatal if swallowed and enters airways

H336 - May cause drowsiness or dizziness

H412 - Harmful to aquatic life with long lasting effects

Legend:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

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ADR: European agreement concerning the international carriage of dangerous goods by road
(Accord européen relatif transport des marchandises dangereuses par route)
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany)
BCF: Bio-Concentration Factor
BOD(5): Biochemical oxygen demand (within 5 days)
CAS: Chemical Abstract Service
CLP: Classification, Labelling and Packaging
CMR: Carcinogenic, Mutagenic, toxic for Reproduction
DIN: German Standards Institute / German industrial norm
DNEL: Derived No Effect Level
DOC: Dissolved organic carbon
EAK/ AVV: European waste catalogue/ waste directory-regulation
EC50: Effective Concentration 50%
ECHA: European Chemical Agency
EINECS: European Inventory of Existing Commercial Chemical Substances
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
IATA: International Air Transport Association
IC50: Inhibition Concentration 50%
IMDG: International Maritime Dangerous Goods Code
LC50: Lethal Concentration 50% - LD50: Lethal dose 50%
MAK: Treshold limit values Germany
NLP: No Longer Polymers
NOAEC: No Observed Adverse Effect Concentration
NOAEL: No Observed Adverse Effect Level
OECD: Organization for Economic Cooperation and Development
PBT: persistent, bioaccumulative, toxic
PC: Product category
PNEC: Predicted No Effect Concentration
REACH: Registration, Evaluation and Authorization of Chemicals
RID: Regulations concerning the international carriage of dangerous goods by rail
(Règlement International concernant le transport de marchandises dangereuses par chemin de fer)
STEL: Short-term Exposure Limit
STP: Sewage treatment plant
SVHC: Substance of Very High Concern
TLV: Threshold Limit Value
TWA: Time Weighted Average
UN: United Nations
VOC: Volatile Organic Compounds
vPvB: very persistent, very bioaccumulative

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ceiling: Maximum limit value

* Skin designation

| Classification procedure | |
|---|--------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used |
| Acute oral toxicity | Calculation method |
| Acute dermal toxicity | Calculation method |
| Acute inhalation toxicity - gas | Calculation method |
| Acute inhalation toxicity - vapor | Calculation method |
| Acute inhalation toxicity - dust/mist | Calculation method |
| Skin corrosion/irritation | Calculation method |
| Serious eye damage/eye irritation | Calculation method |
| Respiratory sensitization | Calculation method |
| Skin sensitization | Calculation method |

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| | |
|--------------------------|--------------------|
| Mutagenicity | Calculation method |
| Carcinogenicity | Calculation method |
| Reproductive toxicity | Calculation method |
| STOT - single exposure | Calculation method |
| STOT - repeated exposure | Calculation method |
| Acute aquatic toxicity | Calculation method |
| Chronic aquatic toxicity | Calculation method |
| Aspiration hazard | Calculation method |
| Ozone | Calculation method |

Key literature references and sources for data used to compile the SDS:

European Chemicals Agency (ECHA)

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

Revision date: 10-Jul-2023

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH):

Disclaimer:

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End of Safety Data Sheet