

SAFETY DATA SHEET

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



Trade name: **Solvent mixture**

Version: 2 Date of issue/Latest revision: Date of issue: 02. 06. 2023 Page: 1/(14)
(Manufacturer) - / 07. 11. 2022. Date of revision: 08. 07. 2024

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

1.1. Product identifier:

Solvent mixture

UFI: WMAQ-0A0A-072Y-AADW

Article number: 2341107

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

Relevant identified uses: Diluent. Industrial use. Use by professional workers. Consumer use.

Uses advised against: application other than the above.

1.3. Details of the supplier of the safety data sheet:

Distributor Details:

OBO Bettermann Produktion Deutschland GmbH & Co. KG

Hüingser Ring 52, 58710 Menden (Sauerland), Germany

Tel.: +49 2373 890

Fax: +49 2373 89238

E-mail: info@obo.de

Responsible for SDS:

OBO Bettermann Produktion Deutschland GmbH & Co. KG

Hüingser Ring 52, 58710 Menden (Sauerland), Germany

Tel.: +49 2373 890

Fax: +49 2373 89238

E-mail: info@obo.de

1.4. Emergency telephone number

National Poisons Information Centre in Ireland:

Tel.: 01 809 2166 (between 8am and 10pm for members of the public)

Tel: 01 809 2566 (Professionals, 24/7)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Hazard Class and Category:

Flam. Liq. 2

Asp. Tox. 1

Skin Irrit. 2

Eye Irrit. 2

Hazard statement:

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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STOT SE 3 H336 May cause drowsiness or dizziness.
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

2.2. Label elements

Product identification: Trade name: **Solvent mixture**

Hazardous components: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane;
Ethyl acetate; Acetone; n-Hexane.

GHS Pictogram:



Signal word: **Danger**

Hazard statement:

H225 Highly 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.
H411 Toxic to aquatic life with long lasting effects.

Supplemental hazard information: -

Precautionary statements – General:

P101 If medical advice is needed, have product container or label at hand.

Precautionary statements – Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P261 Avoid breathing mist, vapours.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves, eye protection.

Precautionary statements – Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/.... Do NOT
+ **P331** induce vomiting.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use sand, dry chemical powder or alcohol-resistant foam to
extinguish.
P391 Collect spillage.

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Precautionary statements – Storage:

P405 Store locked up.

Precautionary statements – Disposal:

P501 Dispose of contents/container in accordance with national regulation.

Other liabilities for labelling:

Tactile warning of danger and child-resistant fastening: required for retail distribution.

Transport classification: see section 14.

2.3. Other hazards

Formation of explosive vapour/air mixture is possible.

The product does not contain any PBT or vPvB substance according to annex XIII of regulation (EC) 1907/2006, at a concentration of 0.1% or more.

The product does not contain any substance with endocrine disrupting properties, at a concentration of 0.1% or more.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical description: Mixtures of the following substances and non-hazardous substances.

Component(s) / Hazardous component(s):

| Name | EC number | CAS number | Hazard classes and cat. | Hazard statements | Conc. % (m/m) |
|--|-----------|------------|--|---|---------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane REACH Registr. Nr.: 01-2119475514-35 | 921-024-6 | - | Flam. Liq. 2 Asp. Tox. 1 Skin Irrit. 2 STOT SE 3 Aquatic Chronic 2 | H225 H304 H315 H336 H411 | ≥50 - <70 |
| Ethyl acetate* REACH Registr. Nr.: 01-2119475103-46 | 205-500-4 | 141-78-6 | Flam. Liq. 2 Eye Irrit. 2 STOT SE 3 | H225 H319 H336 EUH066 | ≥30 - <50 |
| Acetone* REACH Registr. Nr.: 01-2119471330-49 | 200-662-2 | 67-64-1 | Flam. Liq. 2 Eye Irrit. 2 STOT SE 3 | H225 H319 H336 EUH066 | ≥10 - <20 |
| n-Hexane*,** REACH Registr. Nr.: 01-2119480412-44 | 203-777-6 | 110-54-3 | Flam. Liq. 2 Asp. Tox. 1 Skin Irrit. 2 STOT SE 3 Repr. 2 STOT RE 2 Aquatic Chronic 2 | H225 H304 H315 H336 H361f H373 H411 | ≥1 - <2,5 |

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*with exposure limit

**Specific concentration limit: STOT RE 2; H373 \geq 5 %

The full text of each relevant H- phrase and Hazard classes and cat. see in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: Never give anything by mouth to an unconscious person, or never induce vomiting.

Inhalation: Remove the affected person to fresh air. If rapid recovery does not occur, obtain medical attention.

Skin contact: Remove contaminated clothing. Wash skin with large amounts of water, use soap. In case of persistent irritation, get medical attention.

Eye contact: Flush eyes with plenty of water for 10-15 minutes. Continue rinsing. In case of persistent irritation, get medical attention.

Ingestion: DO NOT induce vomiting. Get prompt medical attention.

Protection of first-aid person: No individual specifications.

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

May be fatal if swallowed and enters airways.

Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness or dizziness.

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

No data.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide, foam, dry chemical powder, water spray.

Unsuitable extinguishing media:

Full water jet.

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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

On burning, carbon dioxide, carbon monoxide and other toxic and irritating gases and vapours, dense black smoke can be formed.

5.3. Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations. Respiratory protection.

Further information:

Formation of explosive vapour/air mixture is possible.

Collect contaminated fire-fighting water separately. It must not enter the sewage system.

Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: see Section 8.

Keep persons not involved in rescue at a distance.

Sufficient ventilation should be provided.

Keep away from sources of ignition – No smoking.

6.2. Environmental precautions:

Confine spills to prevent material from entering sewers, watercourses, drains and into soil.

Notify relevant authority.

6.3. Methods and material for containment and cleaning up

On soil: Confine spills to prevent material from entering sewers, watercourses, drains and into soil.

All kind of ignition sources should be removed. Recover free liquid by pumping. Contain the rest or small quantities with non-combustible liquid-absorbent material (sand, diatomaceous earth, universal liquid binder). Place in properly labelled closed container. Dispose of according to local regulations.

6.4. Reference to other sections

Personal precautions: see section 8.

Waste treatment methods: see section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep general measures applied for normal operations with chemicals and flammable liquids.
Adequate ventilation must be provided.
Keep away from radiant heat and open flame.
Avoid dust and aerosol formation.
Take precautionary measures against static discharges.
Formation of explosive vapour/air mixture is possible.
Avoid contact with skin and eyes. Avoid prolonged breathing of vapours.
Wash hands before breaks and at end of work.
Take off contaminated clothing and wash it before reuse.
When using do not eat, drink or smoke. Avoid splashing the product.
Handling temperature: no data.

7.2. Conditions for safe storage, including any incompatibilities

Storage facilities must comply with regulations for storing of flammable liquids.
Store in dry, cool well-ventilated place in original, closed containers.
Keep away from direct sunshine, direct heat or ignition sources and strong oxidizing agents.
Keep away from sources of ignition – No smoking.
Keep away from food, drink and feed.
Keep out of reach of children.
Storage temperature: no data.

7.3. Specific end use(s)

Diluent.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters:

| Substance | CAS number | Occupational Exposure Limit Value (8-hour reference period) | | Occupational Exposure Limit Value (15-minute reference period) | | Notes |
|----------------------|------------|---|-------------------|--|-------------------|-----------|
| | | ppm | mg/m ³ | ppm | mg/m ³ | |
| <i>Ethyl acetate</i> | 141-78-6 | 200 | 734 | 400 | 1468 | IOELV |
| <i>Acetone</i> | 67-64-1 | 500 | 1210 | - | - | IOELV |
| <i>n-Hexane</i> | 110-54-3 | 20 | 72 | - | - | IOELV, Sk |

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8.2. Exposure controls

Engineering control measures:

Adequate ventilation (general or local exhaust, explosion-proof).

Personal protection:

- (a) Eye/face protection Protective goggles with side shields (EN 166).
Ensure that eyewash stations are close to the workstation location.
- (b) Skin protection
- (i) Hand protection Chemical resistant gloves (MSZ EN 374).
-For prolonged contact: gloves with strong mechanical protection.
Breakthrough time: >480 min.;
-Max. 15 minutes contact:
Material: butyl; Layer thickness: min. 0,7 mm; Breakthrough time: 15 min.;
-If splashes may occur:
Material: nitrile; Layer thickness: min. 0,12 mm;
Note: Manufacturer's directions for use and the conditions of application should be observed.
- (ii) Other Protective clothing.
- (c) Respiratory protection Under normal conditions not required. In case of exceeded exposure-limits respiratory protection with particle-filter is recommended.
In case of high concentration or long-term exposure, a respirator independent of the ambient air is required.
- (d) Thermal hazards No data.

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- a) Physical state: liquid
- b) Colour: colorless
- c) Odour: characteristic
- d) Melting point/freezing point (Pour point): not available
- e) Boiling point or initial boiling point and boiling range (DIN 53171): 63°C

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| | |
|---|--|
| f) Flammability: | Highly flammable liquid and vapour. |
| g) Lower and upper explosion limit: | Non-explosive, but the formation of an explosive gas/vapour/air mixture is possible. |
| h) Flash point (DIN 53213): | -26°C |
| i) Auto-ignition temperature: | not self-igniting |
| j) Decomposition temperature: | not available |
| k) pH: | not available |
| l) Kinematic viscosity | |
| at 40°C: | <20.5 mm ² /s |
| at 100°C: | not available |
| m) Solubility | |
| Solubility in water: | not soluble, or only slightly soluble in water |
| Solubility in other solvents: | not available |
| n) Partition coefficient n-octanol/water (log value): | not available |
| o) Vapour pressure at 20°C (DIN 51640): | 105 hPa |
| p) Density and/or relative density at 20°C (DIN 51757): | 0.78 g/cm ³ |
| q) Relative vapour density: | not available |
| r) Particle characteristics: | not available |

9.2. Other information
not available

SECTION 10: Stability and reactivity

| | |
|--|---|
| 10.1. Reactivity | Dangerous reactivity not known. |
| 10.2. Chemical stability | No decomposition if stored and handled properly. |
| 10.3. Possibility of hazardous reactions | Formation of flammable gases and vapors. |
| 10.4. Conditions to avoid | Heating, ignition source. |
| 10.5. Incompatible materials | Strong oxidizing agents. |
| 10.6. Hazardous decomposition products | No dangerous decomposition products are formed under normal conditions. Hazardous combustion products: See Section 5. |

SECTION 11: Toxicological information

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

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Acute toxicity: Based on available data, the classification criteria are not met.

Components:

Ethyl acetate (CAS: 141-78-6)

| | | |
|-------------|---------------------------|-----------------|
| Oral: | LD ₅₀ (rat) | 5620 mg/kg |
| Dermal: | LD ₅₀ (rabbit) | >20000 mg/kg |
| Inhalation: | LC ₅₀ (rat) | 22,5 mg/L (4 h) |

n-Hexane (CAS: 110-54-3)

| | | |
|---------|---------------------------|------------|
| Dermal: | LD ₅₀ (rabbit) | 3000 mg/kg |
|---------|---------------------------|------------|

| | |
|------------------------------------|---|
| Skin corrosion/irritation: | Causes skin irritation. |
| Serious eye damage/irritation: | Causes serious eye irritation. |
| Respiratory or skin sensitisation: | Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity: | Based on available data, the classification criteria are not met. |
| Carcinogenicity: | Based on available data, the classification criteria are not met. |
| Reproductive toxicity: | Based on available data, the classification criteria are not met. |
| STOT-single exposure: | May cause drowsiness or dizziness. |
| STOT-repeated exposure: | Based on available data, the classification criteria are not met. |
| Aspiration hazard: | May be fatal if swallowed and enters airways. |

11.2. Information on other hazards

The product does not contain any substance with endocrine disrupting properties, at a concentration of 0.1% or more.

SECTION 12: Ecological information

12.1. Toxicity Toxic to aquatic life with long lasting effects.

Components:

Ethyl acetate (CAS: 141-78-6)

| | | | |
|-------------------------------|------------------|----------------|--------|
| Fishes (Pimephales promelas): | LC ₅₀ | 220 - 250 mg/L | (96 h) |
|-------------------------------|------------------|----------------|--------|

n-Hexane (CAS: 110-54-3)

| | | | |
|-------------------------------|------------------|-----------------|--------|
| Fishes (Pimephales promelas): | LC ₅₀ | 2,1 – 2,98 mg/L | (96 h) |
|-------------------------------|------------------|-----------------|--------|

12.2. Persistence and degradability No data for the product.

12.3. Bioaccumulative potential No data for the product.

12.4. Mobility in soil No data available.

Mobility in water: Not soluble, or only slightly soluble in water.

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- | | |
|---|--|
| 12.5. Results of PBT and vPvB assessment | Does not contain PBT and vPvB substances, at a concentration of 0.1% or more. |
| 12.6. Endocrine disrupting properties | The product does not contain any substance with endocrine disrupting properties, at a concentration of 0.1% or more. |
| 12.7. Other adverse effects Water hazard class (German): | Large spills may be hazardous to the environment. WGK 2 (Classification by AwSV) |

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Wastes of the product or used oil should be treated as hazardous waste.

Waste Identification Code: 08 04 09*

Waste adhesives and sealants containing organic solvents or other dangerous substances.

Waste Identification Code: 08 04 11*

Adhesive and sealant sludges containing organic solvents or other dangerous substances.

Disposal must be in compliance with national and local regulations.

Recommended waste treatment method: no data. Do not mix with household waste.

Packaging disposal:

Containers with product residue should also be treated as hazardous waste according to national and local disposal regulations.

Waste Identification Code: 15 01 01

Paper and cardboard packaging.

Waste Identification Code: 15 01 02

Plastic packaging.

Waste Identification Code: 15 01 04

Metallic packaging.

Waste Identification Code: 15 01 10*

Packaging containing residues of or contaminated by dangerous substances

Disposal must be in compliance with national and local regulations.

Wastewater:

Quality of wastewater emitted to natural water must comply with national and local regulations.

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Care should be taken in any case to ensure compliance with EC, national and local regulations.
It is the responsibility of the user to know all relevant national and local regulations.

SECTION 14: Transport information

Land transport:

Road/ Railway

ADR/RID:

| | |
|--|---|
| 14.1. UN number or ID number | 1993 |
| 14.2. UN proper shipping name | FLAMMABLE LIQUID, N.O.S. (Ethyl acetate; Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n- hexane) |
| 14.3. Transport hazard class(es) | 3 (classification code: F1) |
| 14.4. Packing group | II |
| Labels: | 3 |
| 14.5. Environmental hazards | dangerous for the environment |
| Marine pollutant | yes |
| 14.6. Special precautions for user | |
| Limited quantities: | 1 L |
| Excepted quantities: | E2 |
| Tunnel restriction code: | D/E |
| Hazard identification No.: | 33 |
| EMS: | F-E, S-E |
| 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
This safety data sheet has been prepared according to Regulation (EC) No 1907/2006
(mod.: 2020/878/EU) and to Regulation (EC) 1272/2008.
Seveso category: P5.c, E2.

The product contains a reportable explosive precursor component (based on Annex II of
Regulation (EU) 2019/1148):
Acetone (CAS: 67-64-1)

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15.2. Chemical safety assessment.
not available

SECTION 16: Other information

The information given in this data sheet is based on our best knowledge at the time of publication. The information is related only to this product and is intended to assist its safe transport, handling and use. The given physical and chemical parameters describe the product only for the purpose of safety requirements and therefore should not be construed as guaranteeing any specific property of the product or as being part of a product specification or any contract.

The manufacturer or supplier shall not take responsibility for any damages from the use other than recommended or other misuse of the product. It is the responsibility of the user to keep regulatory precautions and observe recommendations for safe use of the product.

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 (CLP)

| | | |
|-------------------|------|--------------------|
| Flam. Liq. 2 | H225 | flashpoint value |
| Asp. Tox. 1 | H304 | calculation method |
| Skin Irrit. 2. | H315 | calculation method |
| Eye Irrit. 2 | H319 | calculation method |
| STOT SE 3 | H336 | calculation method |
| Aquatic Chronic 3 | H411 | calculation method |

The full text of each relevant H- phrase and Hazard classes and cat. in Section 3.:

| | |
|-------|---|
| H225 | Highly 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 |
| H361f | Suspected of damaging fertility. |
| H373 | May cause damage to organs through prolonged or repeated exposure through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |

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| | |
|-------------------|---|
| Asp. Tox. 1 | Aspiration hazard Category 1 |
| Flam. Liq. 2 | Flammable liquid Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| Eye Irrit. 2 | Serious eye damage/eye irritation Category 2 |
| STOT SE 3 | Specific target organ toxicity — single exposure Category 3 |
| Repr. 2 | Reproductive toxicity Category 2 |
| STOT RE 2 | Specific target organ toxicity – repeated exposure Category 2 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, Chronic Category 2 |

Legend:

| | |
|-------------------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration Factor |
| BOD | Biological Oxygen Demand |
| Bw | Body Weight |
| C&L | Classification and Labelling |
| CAS | Chemical Abstracts Service |
| CLP | Classification, Labelling and Packaging |
| CMR | Carcinogenic, Mutagenic or toxic to Reproduction |
| COD | Chemical Oxygen Demand |
| CSA | Chemical Safety Assessment |
| CSR | Chemical Safety Report |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No Effect Level |
| ECHA | European Chemicals Agency |
| Ec _x | Effective Concentration x% |
| ErC ₅₀ | EC ₅₀ in terms of reduction of growth rate |
| Ed _x | Effective Dose x% |
| EC | European Community |
| EC number | European Community number |
| ELINCS | European List of Notified Chemical Substances |
| ES | Exposure Scenario |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC _x | Lethal Concentration x% |
| LD _x | Lethal Dose x% |
| LOAEC | Lowest Observed Adverse Effect Concentration |

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| | |
|-------|---|
| LOAEL | Lowest Observed Adverse Effect Level |
| LOEC | Lowest Observed Effect Concentration |
| LOEL | Lowest Observed Effect Level |
| NOEC | No observed effect concentration |
| NOEL | No observed effect level |
| NLP | No-Longer Polymer |
| NOAEL | No Observed Adverse Effect Level |
| OECD | Organisation for Economic Cooperation and Development |
| PBT | Persistent Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| ppm | parts/million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Regulations concerning the International carriage of Dangerous Goods by Rail |
| SVHC | Substance of Very High Concern |
| UVCB | substance of unknown or variable composition, complex reaction products or biological materials |
| VOC | Volatile organic compounds |
| vPvB | Very Persistent and very Bio-accumulative |

Revision Indicators:

| Section | Subject of change | Date | Version |
|---------|--|--------------|---------|
| 1-16. | Full revision due to composition change. | 08. 07. 2024 | 2 |