



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

EVO-STIK 528
Supersedes Date: 26-Oct-2020

Revision date 13-Apr-2022
Revision Number 3

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

1.1. Product identifier

Product Name EVO-STIK 528
Pure substance/mixture Mixture

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

Recommended use Adhesive
Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Company Name

Bostik Limited
Common Rd
ST16 3EH
Stafford UK
Tel: +44 (1785) 27 26 25
Fax: +44 (1785) 25 72 36

E-mail address SDS.box-EU@bostik.com

1.4. Emergency telephone number

Emergency Telephone
United Kingdom +44 (1785) 272650
Ireland **NPIC - National Poison Information Centre**
Members of the Public: +353 (01) 8092166 (8.00 am to 10.00 pm - 7 days a week)
Healthcare Professionals: +353 (01) 8092566 (24 hour service)
Europe 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

| | |
|--|---------------------|
| Skin corrosion/irritation | Category 2 - (H315) |
| Serious eye damage/eye irritation | Category 2 - (H319) |
| Specific target organ toxicity — single exposure | Category 3 - (H336) |
| Chronic aquatic toxicity | Category 2 - (H411) |
| Flammable liquids | Category 2 - (H225) |

2.2. Label elements

Contains Acetone, Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, Methyl ethyl ketone, Hydrocarbons, C6, isoalkanes, <5% n-hexane

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Signal word
Danger

Hazard statements

H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H411 - Toxic to aquatic life with long lasting effects.
H225 - Highly flammable liquid and vapour.

EU Specific Hazard Statements

EUH208 - Contains rosin & methylols. May produce an allergic reaction

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

P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves and eye/face protection
P302 + P352 - IF ON SKIN: Wash with plenty of water and soap
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P391 - Collect spillage
P403 + P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information

Placed on the market in aerosol containers or in containers fitted with a sealed spray attachment.

2.3. Other hazards

In use, may form flammable/explosive vapour-air mixture.

PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

| Chemical name | EC No | CAS No | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | REACH registration number |
|---------------|-----------|---------|----------|---|------------------------------------|---------------------------|
| Acetone | 200-662-2 | 67-64-1 | 10 - <20 | Eye Irrit. 2 (H319) (EUH066) | - | 01-2119471330-49-XXXX |

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| | | | | | | |
|--|-----------|------------|----------|--|---|---------------------------|
| | | | | STOT SE 3 (H336) Flam. Liq. 2 (H225) | | |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | 64742-49-0 | 10 - <20 | STOT SE 3 (H336) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Aquatic Chronic 2 (H411) Flam. Liq. 2 (H225) | - | 01-2119475515- 33-xxxx |
| Methyl ethyl ketone | 201-159-0 | 78-93-3 | 10 - <20 | Eye Irrit. 2 (H319) (EUH066) STOT SE 3 (H336) Flam. Liq. 2 (H225) | - | 01-2119457290- 43-XXXX |
| Ethyl acetate | 205-500-4 | 141-78-6 | 10 - <20 | Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225) (EUH066) | - | 01-2119475103- 46-XXXX |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | 931-254-9 | 64742-49-0 | 5 - <10 | STOT SE 3 (H336) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Aquatic Chronic 2 (H411) Flam Liq. 2 (H225) (EUH066) | - | 01-2119484651- 34-XXXX |
| Xylenes (o-, m-, p- isomers) | 215-535-7 | 1330-20-7 | 5 - <10 | STOT SE 3 (H335) STOT RE 2 (H373) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Flam Liq. 3 (H226) Aquatic Chronic 3 (H412) | - | 01-2119488216- 32-XXXX |
| Ethylbenzene | 202-849-4 | 100-41-4 | 1- <2.5 | STOT RE 2 (H373) Asp. Tox. 1 (H304) | - | 01-2119489370- 35-XXXX |

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| | | | | | | |
|-----------|-----------|-----------|----------|--|---|---------------------------|
| | | | | Acute Tox. 4 (H332) Flam Liq. 2 (H225) Aquatic Chronic 3 (H412) | | |
| Rosin | 232-475-7 | 8050-09-7 | 0.1 - <1 | Skin Sens. 1 (H317) | - | 01-2119480418- 32-XXXX |
| Methylols | - | UNKNOWN | 0.1 - <1 | Skin Sens. 1 (H317) | - | - |

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

EC# 927-510-4 Related CAS no 64742-49-0
EC# 931-254-9 Related CAS no 64742-49-0

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)

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. Get medical attention immediately if symptoms occur. |
| 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. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. |
| Skin contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists. |
| Ingestion | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor. |
| 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. Avoid contact with skin, eyes or clothing. |

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

| | |
|-----------------|---|
| Symptoms | May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. |
|-----------------|---|

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

| | |
|------------------------|------------------------|
| Note to doctors | Treat symptomatically. |
|------------------------|------------------------|

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media No information available.

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.

Hazardous combustion products Carbon oxides. Carbon monoxide. Carbon dioxide (CO₂).

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.

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 vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off 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 labelled 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 breathing vapours 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

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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. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. 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. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

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 labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

Recommended storage temperature Keep at temperatures between 5 and 25 °C.

7.3. Specific end use(s)

Specific use(s)
Adhesive.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

| Chemical name | European Union | United Kingdom |
|---|---|---|
| Acetone 67-64-1 | TWA: 500 ppm TWA: 1210 mg/m ³ | TWA: 500 ppm TWA: 1210 mg/m ³ STEL: 1500 ppm STEL: 3620 mg/m ³ |
| Methyl ethyl ketone 78-93-3 | TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³ | TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 899 mg/m ³ Sk* |
| Ethyl acetate 141-78-6 | TWA: 734 mg/m ³ TWA: 200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm | TWA: 734 mg/m ³ TWA: 200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm |
| Xylenes (o-, m-, p- isomers) 1330-20-7 | TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ * | TWA: 50 ppm TWA: 220 mg/m ³ STEL: 100 ppm STEL: 441 mg/m ³ Sk* |
| Ethylbenzene 100-41-4 | TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³ * | TWA: 100 ppm TWA: 441 mg/m ³ STEL: 125 ppm STEL: 552 mg/m ³ Sk* |
| Rosin 8050-09-7 | - | TWA: 0.05 mg/m ³ STEL: 0.15 mg/m ³ |

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| | | |
|------------------------------------|---|---|
| Magnesium oxide (MgO) 1309-48-4 | - | TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³ |
|------------------------------------|---|---|

| Chemical name | European Union | Ireland | United Kingdom |
|---|----------------|--|-------------------------------|
| Acetone 67-64-1 | - | 50 mg/L (urine - Acetone end of shift) | - |
| Methyl ethyl ketone 78-93-3 | - | 70 µmol/L (urine - Butan-2-one post shift) | 70 µmol/L urine |
| Xylenes (o-, m-, p- isomers) 1330-20-7 | - | 1.5 g/g Creatinine (urine - Methylhippuric acids end of shift) | 650 mmol/mol creatinine urine |
| Ethylbenzene 100-41-4 | - | 0.7 g/g Creatinine (urine - sum of Mandelic acid and Phenylglyoxylic acid end of shift at end of workweek) 0.7 g (end-exhaled air - not critical) | - |

Derived No Effect Level (DNEL) No information available

| Derived No Effect Level (DNEL) | | | |
|--|----------------|--------------------------------|---------------|
| Acetone (67-64-1) | | | |
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Long term Systemic health effects worker | Dermal | 186 mg/kg bw/d | |
| Short term Local health effects worker | Inhalation | 2420 mg/m ³ | |
| Long term Systemic health effects worker | Inhalation | 1210 mg/m ³ | |

| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0) | | | |
|---|----------------|--------------------------------|---------------|
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker Long term Systemic health effects | Inhalation | 2085 mg/m ³ | |
| worker Long term Systemic health effects | Dermal | 300 mg/kg bw/d | |

| Methyl ethyl ketone (78-93-3) | | | |
|--|----------------|--------------------------------|---------------|
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker Long term Systemic health effects | Dermal | 1161 mg/kg bw/d | |
| worker Long term Systemic health effects | Inhalation | 600 mg/m ³ | |

| Ethyl acetate (141-78-6) | | | |
|--|----------------|--------------------------------|---------------|
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker Long term Systemic health effects | Dermal | 63 mg/kg bw/d | |
| worker Short term | Inhalation | 1468 mg/m ³ | |

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| | | | |
|--|------------|------------------------|--|
| Systemic health effects worker Long term | Inhalation | 734 mg/m ³ | |
| Local health effects worker Short term | Inhalation | 1468 mg/m ³ | |
| Local health effects worker Long term | Inhalation | 734 mg/m ³ | |
| Systemic health effects | | | |

Hydrocarbons, C6, isoalkanes, <5% n-hexane (64742-49-0)

| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|--|----------------|--------------------------------|---------------|
| worker Systemic health effects Long term | Dermal | 13964 mg/kg bw/d | |
| worker Long term Systemic health effects | Inhalation | 2085 mg/m ³ | |

Xylenes (o-, m-, p- isomers) (1330-20-7)

| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|---|----------------|--------------------------------|---------------|
| Long term Systemic health effects worker | Dermal | 180 mg/kg bw/d | |
| Long term Systemic health effects worker | Inhalation | 77 mg/m ³ | |
| Short term Local health effects Systemic health effects worker | Inhalation | 289 mg/m ³ | |

Rosin (8050-09-7)

| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|--|----------------|--------------------------------|---------------|
| worker Long term Local health effects | Inhalation | 10 mg/m ³ | |
| worker Long term Systemic health effects | Dermal | 2131 mg/kg bw/d | |

Derived No Effect Level (DNEL)

Acetone (67-64-1)

| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|--|----------------|--------------------------------|---------------|
| Consumer Long term Systemic health effects | Inhalation | 200 mg/m ³ | |
| Consumer Long term Systemic health effects | Dermal | 62 mg/kg bw/d | |
| Consumer Long term Systemic health effects | Oral | 62 mg/kg bw/d | |

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)

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| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|--|----------------|--------------------------------|---------------|
| Consumer Long term Systemic health effects | Inhalation | 447 mg/m ³ | |
| Consumer Long term Systemic health effects | Dermal | 149 mg/kg bw/d | |
| Consumer Long term Systemic health effects | Oral | 149 mg/kg bw/d | |

Methyl ethyl ketone (78-93-3)

| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|---|----------------|--------------------------------|---------------|
| Consumer Long term Systemic health effects | Dermal | 412 mg/kg bw/d | |
| Consumer Long term Systemic health effects | Inhalation | 106 mg/m ³ | |
| Consumer Local health effects Systemic health effects | Oral | 31 mg/kg bw/d | |

Ethyl acetate (141-78-6)

| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|---|----------------|--------------------------------|---------------|
| Consumer Long term Systemic health effects | Oral | 4.5 mg/kg bw/d | |
| Consumer Long term Systemic health effects | Dermal | 37 mg/kg bw/d | |
| Consumer Short term Systemic health effects | Inhalation | 734 mg/m ³ | |
| Consumer Long term Local health effects | Inhalation | 367 mg/m ³ | |
| Consumer Short term Local health effects | Inhalation | 734 mg/m ³ | |
| Consumer Long term Systemic health effects | Inhalation | 367 mg/m ³ | |

Rosin (8050-09-7)

| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|--|----------------|--------------------------------|---------------|
| Consumer Long term Systemic health effects | Dermal | 1065 mg/kg bw/d | |
| Consumer Long term Systemic health effects | Oral | 1065 mg/kg bw/d | |

Predicted No Effect Concentration (PNEC) No information available.

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| Predicted No Effect Concentration (PNEC) | |
|---|--|
| Acetone (67-64-1) | |
| Environmental compartment | Predicted No Effect Concentration (PNEC) |
| Freshwater | 10.6 mg/l |
| Freshwater - intermittent | 21 mg/l |
| Marine water | 1.06 mg/l |
| Microorganisms in sewage treatment | 100 mg/l |
| Freshwater sediment | 30.4 mg/kg dry weight |
| Marine water | 3.04 mg/kg dry weight |
| Soil | 29.5 mg/kg dry weight |

| Methyl ethyl ketone (78-93-3) | |
|--------------------------------------|--|
| Environmental compartment | Predicted No Effect Concentration (PNEC) |
| Freshwater | 55.8 mg/l |
| Marine water | 55.8 mg/l |
| Freshwater sediment | 287.74 mg/l |
| Marine sediment | 287.7 mg/l |
| Soil | 22.5 mg/l |

| Ethyl acetate (141-78-6) | |
|------------------------------------|--|
| Environmental compartment | Predicted No Effect Concentration (PNEC) |
| Freshwater | 0.26 mg/l |
| Marine water | 0.026 mg/l |
| Freshwater sediment | 1.25 mg/kg |
| Marine sediment | 0.125 mg/kg |
| Soil | 0.24 mg/kg |
| Microorganisms in sewage treatment | 650 mg/l |

| Rosin (8050-09-7) | |
|---------------------------|--|
| Environmental compartment | Predicted No Effect Concentration (PNEC) |
| Freshwater | 0.002 mg/l |
| Marine water | 0 mg/l |
| Sewage treatment plant | 1000 mg/l |
| Freshwater sediment | 0.007 mg/l |
| Marine sediment | 0.001 mg/l |

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas. Vapours/aerosols must be exhausted directly at the point of origin.

Personal protective equipment

- Eye/face protection** Tight sealing safety goggles. Face protection shield. Eye protection must conform to standard EN 166.
- Hand protection** Wear protective gloves. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature.
- Skin and body protection** Antistatic footwear. Wear fire/flame resistant/retardant clothing. Suitable protective clothing.
- Respiratory protection** In case of inadequate ventilation wear respiratory protection. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
- Recommended filter type:** Organic gases and vapours filter conforming to EN 14387.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|------------------------|--------------------------|
| Physical state | Liquid |
| Appearance | Viscous Liquid |
| Colour | Light yellow |
| Odour | Solvent. |
| Odour threshold | No information available |

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| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|---|--------------------------------|---|
| Melting point / freezing point | No data available | |
| Initial boiling point and boiling range | 56 °C | |
| Flammability | Not applicable for liquids . | |
| Flammability Limit in Air | | |
| Upper flammability or explosive limits | No data available | |
| Lower flammability or explosive limits | No data available | |
| Flash point | -20 °C | |
| Autoignition temperature | No data available | |
| Decomposition temperature | | |
| pH | No data available | Not applicable Insoluble in water |
| pH (as aqueous solution) | No data available | None known |
| Kinematic viscosity | approx 4000 mm ² /s | @ 20 °C |
| Dynamic viscosity | 3500 mPa s | @ 23 °C |
| Water solubility | No data available | Insoluble in water |
| Solubility(ies) | No data available | |
| Partition coefficient | No data available | |
| Vapour pressure | 110 | kPa |
| Relative density | 0.84 | |
| Bulk Density | No data available | |
| Density | No data available | |
| Relative vapour density | No data available | |
| Particle characteristics | | |
| Particle Size | No information available | |
| Particle Size Distribution | No information available | |
| 9.2. Other information | | |
| Softening Point | Not relevant | |
| VOC Content (%) | 640 g/L | Directive 2004/42/EC on the limitation of emissions of volatile organic compounds |

9.2.1. Information with regards to physical hazard classes
Not applicable

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.

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

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Conditions to avoid Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions. Stable under recommended storage conditions.

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 | Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May cause drowsiness or dizziness. |
| Eye contact | Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain. |
| Skin contact | Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components). |
| Ingestion | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. |

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. May cause redness and tearing of the eyes. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Acute toxicity

Numerical measures of toxicity

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

| | |
|--------------------------------------|-----------------|
| ATEmix (dermal) | 30,424.60 mg/kg |
| ATEmix (inhalation-dust/mist) | 62.70 mg/l |
| ATEmix (inhalation-vapour) | 290.50 mg/l |

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|--|--|--|
| Acetone | =5800 mg/kg (Rattus) 3000 mg/Kg (mouse) | >15800 mg/Kg (Rattus) | =79 mg/l(Rattus) 4 h |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | LD50 >5840 mg/kg Rat | LD50 >2920 mg/kg (Rattus) | LC50 >23.3 mg/L (4h)(Rat, vapour) (OECD 403) |
| Methyl ethyl ketone | =2483 mg/kg (Rattus) | = 5000 mg/kg (Oryctolagus cuniculus) | =11700 ppm (Rattus) 4 h |
| Ethyl acetate | =5620 mg/kg (Rattus) | > 18000 mg/kg (Oryctolagus cuniculus) > 20 mL/kg (Oryctolagus cuniculus) | LC0 29.3 mg/l air |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | >16750 mg/Kg (Rattus) | >3350 mg/Kg (Oryctolagus cuniculus) OECD 402 | 259354 mg/m ³ (vapour) (rat OECD 403) |

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| | | | |
|------------------------------|----------------------|---|--|
| Xylenes (o-, m-, p- isomers) | =3500 mg/kg (Rattus) | > 1700 mg/kg (Oryctolagus cuniculus) > 4350 mg/kg (Oryctolagus cuniculus) | =>47635 mg/L (Rattus) 4 h = >5000 ppm (Rattus) 4 h |
| Ethylbenzene | =3500 mg/kg (Rattus) | = 15400 mg/kg (Oryctolagus cuniculus) | =17.4 mg/L (Rattus) 4 h |
| Rosin | >2000 mg/Kg (Rattus) | > 2500 mg/kg (Oryctolagus cuniculus) | =1.5 mg/L (Rattus) 4 h |

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

Skin corrosion/irritation Classification based on data available for ingredients. Irritating to skin.

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|--|---------|----------------|----------------|---------------|-----------------------|
| OECD Test No. 404: Acute Dermal Irritation/Corrosion | Rabbit | Dermal | | | Irritant. Read-across |

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Methyl ethyl ketone (78-93-3)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|---|---------|----------------|----------------|---------------|----------|
| OECD Test No. 405: Acute Eye Irritation/Corrosion | Rabbit | eye | | | irritant |

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Acetone (67-64-1)

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)

| Method | Species | Exposure route | Results |
|---------------------------------------|------------|----------------|---|
| OECD Test No. 406: Skin Sensitisation | Guinea pig | Dermal | Did not cause sensitisation on laboratory animals |

Methyl ethyl ketone (78-93-3)

| Method | Species | Exposure route | Results |
|---------------------------------------|------------|----------------|--|
| OECD Test No. 406: Skin Sensitisation | Guinea pig | Dermal | No sensitisation responses were observed |

Ethyl acetate (141-78-6)

| Method | Species | Exposure route | Results |
|---------------------------------------|------------|----------------|--|
| OECD Test No. 406: Skin Sensitisation | Guinea pig | Dermal | No sensitisation responses were observed |

Xylenes (o-, m-, p- isomers) (1330-20-7)

| Method | Species | Exposure route | Results |
|---|---------|----------------|--|
| OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay | Mouse | Dermal | No sensitisation responses were observed |

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Component Information

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)

| Method | Species | Results |
|--|----------------------------------|----------------------------|
| OECD Test No. 471: Bacterial Reverse Mutation Test | Salmonella typhimurium, in vitro | Not mutagenic in AMES Test |

Methylols (UNKNOWN)

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

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Toxic to aquatic life with long lasting effects.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea | M-Factor | M-Factor (long-term) |
|--|--|---|--|---|----------|----------------------|
| Acetone 67-64-1 | - | LC50 96 h 4.74 - 6.33 mL/L (Oncorhynchus mykiss) | EC50 = 14500 mg/L 15 min | EC50 48 h 10294 - 17704 mg/L (Daphnia magna Static) | | |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0 | ErL50 (72h) = 10-30 mg/L (Pseudokirchneriella subcapitata) | LL50 (96h) >13.4 mg/L (Oncorhynchus mykiss) OECD 203 | - | EL50 (48h) = 3.0 mg/L (Daphnia magna) | 1 | 1 |
| Methyl ethyl ketone 78-93-3 | EC50=1972 mg/l (Pseudokirchneriella subcapitata) | LC50: 3130 - 3320mg/L (96h, Pimephales promelas) | EC50 = 3403 mg/L 30 min EC50 = 3426 mg/L 5 min | EC50 48 h > 308 mg/L (Daphnia magna) | | |
| Ethyl acetate 141-78-6 | EC50: =3300mg/L (48h, Desmodosmus subspicatus) | LC50: =484mg/L (96h, Oncorhynchus mykiss) LC50: 352 - 500mg/L (96h, Oncorhynchus mykiss) LC50: 220 - 250mg/L (96h, Pimephales promelas) | EC50 = 1180 mg/L 5 min EC50 = 1500 mg/L 15 min EC50 = 5870 mg/L 15 min EC50 = 7400 mg/L 2 h | EC50: =560mg/L (48h, Daphnia magna) | | |

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| | | | | | | |
|---|---|--|--|--|--|--|
| Hydrocarbons, C6, isoalkanes, <5% n-hexane 64742-49-0 | EL50 (72h) = 13.6 mg/l (Pseudokirchneriella subcapitata) | LL50 (96h) = 18.27 mg/l (Oncorhynchus mykiss) | - | EL50 (48h)= 31.9 mg/l (Daphnia magna) | | |
| Xylenes (o-, m-, p- isomers) 1330-20-7 | - | LC50 96 h 2.6 mg/L (Oncorhynchus mykiss) (OECD 203) | EC50 = 0.0084 mg/L 24 h | EC50 48 h = 3.4 mg/L (Daphnia magna) | | |
| Ethylbenzene 100-41-4 | EC50 72 h 2.6 - 11.3 mg/L (Pseudokirchneriella subcapitata) | LC50 96 h = 4.2 mg/L (Oncorhynchus mykiss semi-static) | EC50 = 9.68 mg/L 30 min EC50 = 96 mg/L 24 h | EC50: 1.8 - 2.4mg/L (48h, Daphnia magna) | | |
| Rosin 8050-09-7 | EC50: =400mg/L (72h, Desmodesmus subspicatus) | LC50 (96h) >10mg/L (Danio rerio) | EC50 = 31.5 mg/L 30 min | EC50 48 h >100 mg/L (Daphnia magna) | | |

12.2. Persistence and degradability

Persistence and degradability No information available.

Acetone (67-64-1)

| Method | Exposure time | Value | Results |
|---|---------------|----------------|----------------------------|
| OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B) | 28 days | biodegradation | 91 % Readily biodegradable |

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)

| Method | Exposure time | Value | Results |
|---|---------------|-------|-----------------------|
| OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F) | 28 days | 98% | Readily biodegradable |

Methyl ethyl ketone (78-93-3)

| Method | Exposure time | Value | Results |
|---|---------------|----------------|----------------------------|
| OECD Test No. 301D: Ready Biodegradability: Closed Bottle Test (TG 301 D) | 28 days | biodegradation | 98 % Readily biodegradable |

Ethyl acetate (141-78-6)

Xylenes (o-, m-, p- isomers) (1330-20-7)

| Method | Exposure time | Value | Results |
|---|---------------|----------------|------------------------------|
| OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F) | 28 days | biodegradation | 87.8 % Readily biodegradable |

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

| Chemical name | Partition coefficient |
|--|-----------------------|
| Acetone | -0.24 |
| Methyl ethyl ketone | 0.3 |
| Ethyl acetate | 0.73 |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | 3.6 |
| Xylenes (o-, m-, p- isomers) | 3.15 |
| Ethylbenzene | 3.6 |

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| | |
|-------|-----|
| Rosin | 7.7 |
|-------|-----|

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

| Chemical name | PBT and vPvB assessment |
|--|--|
| Acetone | The substance is not PBT / vPvB PBT assessment does not apply |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | The substance is not PBT / vPvB |
| Methyl ethyl ketone | The substance is not PBT / vPvB |
| Ethyl acetate | The substance is not PBT / vPvB PBT assessment does not apply |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | The substance is not PBT / vPvB |
| Xylenes (o-, m-, p- isomers) | The substance is not PBT / vPvB |
| Ethylbenzene | The substance is not PBT / vPvB |
| Rosin | The substance is not PBT / vPvB Further information relevant for the PBT assessment is necessary |

12.6. Endocrine disrupting properties

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. |
| European Waste Catalogue | 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances 15 01 10*: Packaging containing residues of or contaminated by dangerous substances |
| Other information | Waste codes should be assigned by the user based on the application for which the product was used. |

SECTION 14: Transport information

Note: The information shown here, may not always agree with the bill of lading shipping description for the material. The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments made in non-bulk packages (see regulatory definition).

Land transport (ADR/RID)

| | |
|---------------------------------|-----------|
| 14.1 UN number or ID number | UN1133 |
| 14.2 Proper Shipping Name | Adhesives |
| 14.3 Transport hazard class(es) | 3 |

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| | |
|--|---|
| Labels | 3 |
| 14.4 Packing group | II |
| Description | UN1133, Adhesives, 3, II, (D/E), Environmentally Hazardous |
| 14.5 Environmental hazards | Yes |
| 14.6 Special Provisions | 640C |
| Classification code | F1 |
| Tunnel restriction code | (D/E) |
| Limited quantity (LQ) | 5 L |
| ADR Hazard Id (Kemmler Number) | 33 |
| IMDG | |
| 14.1 UN number or ID number | UN1133 |
| 14.2 Proper Shipping Name | Adhesives |
| 14.3 Transport hazard class(es) | 3 |
| 14.4 Packing group | II |
| Description | UN1133, Adhesives (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics), 3, II, (-20°C c.c.), Marine Pollutant |
| 14.5 Marine pollutant | P |
| 14.6 Special Provisions | None |
| Limited Quantity (LQ) | 5 L |
| EmS-No | F-E, S-D |
| 14.7 Maritime transport in bulk according to IMO instruments | Not applicable |
| Air transport (ICAO-TI / IATA-DGR) | |
| 14.1 UN number or ID number | UN1133 |
| 14.2 Proper Shipping Name | Adhesives |
| 14.3 Transport hazard class(es) | 3 |
| 14.4 Packing group | II |
| Description | UN1133, Adhesives, 3, II |
| 14.5 Environmental hazards | Yes |
| 14.6 Special Provisions | A3 |
| Limited quantity (LQ) | 1 L |
| ERG Code | 3L |

Section 15: REGULATORY INFORMATION

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

European Union

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

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

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:

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)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

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

| Chemical name | CAS No | Restricted substance per REACH Annex XVII |
|---------------|--------|---|
|---------------|--------|---|

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| | | |
|--|------------|-------------------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 64742-49-0 | 28. 29. 75. |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | 64742-49-0 | 28. 29. 75. |

Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

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

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Named dangerous substances per Seveso Directive (2012/18/EU)

| Chemical name | Lower-tier requirements (tons) | Upper-tier requirements (tons) |
|--|--------------------------------|--------------------------------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics - 64742-49-0 | | 25000 |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane - 64742-49-0 | | 25000 |

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Persistent Organic Pollutants

Not applicable

REGULATION (EU) 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on the marketing and use of explosives precursors

This product contains

| Chemical name | Reporting of suspicious transactions, disappearances and thefts | Restricted |
|-------------------|---|------------|
| Acetone - 67-64-1 | X | |

National regulations

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

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

H225 - Highly flammable liquid and vapour

H226 - Flammable liquid and vapour

H304 - May be fatal if swallowed and enters airways

H312 - Harmful in contact with skin

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

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H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H373 - May cause damage to organs through prolonged or repeated exposure
H411 - Toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects

Legend

| | |
|---------|---|
| TWA | TWA (time-weighted average) |
| STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Ceiling Limit Value |
| * | Skin designation |
| SVHC | Substance(s) of Very High Concern |
| PBT | Persistent, Bioaccumulative, and Toxic (PBT) Chemicals |
| vPvB | Very Persistent and very Bioaccumulative (vPvB) Chemicals |
| STOT RE | Specific target organ toxicity - Repeated exposure |
| STOT SE | Specific target organ toxicity - Single exposure |
| EWC | European Waste Catalogue |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| IMDG | International Maritime Dangerous Goods (IMDG) |
| IATA | International Air Transport Association (IATA) |
| RID | Regulations concerning the International Transport of Dangerous Goods by Rail |

Key literature references and sources for data

No information available

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Indication of changes

Revision note SDS sections updated: 9.

Training Advice Provide adequate information, instruction, and training for operator

Further information No information available

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet