

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

BOSTIK 2402

Supercedes Date: 06-Feb-2020

Revision date 27-Apr-2020 Revision Number 1.06

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

1.1. Product Identifier

Product Name BOSTIK 2402
Pure substance/mixture Mixture

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

Recommended use Adhesive.
Uses advised against Consumer use

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

United Kingdom +44 (1785) 272650

Ireland +353 (1) 8624900 (Monday- Friday 9am-5pm)

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) |
| Skin sensitisation | Category 1A - (H317) |
| Reproductive toxicity | Category 2 - (H361) |
| Specific target organ toxicity (single exposure) | Category 3 - (H336) |
| Specific target organ toxicity — repeated exposure | Category 2 - (H373) |
| Chronic aquatic toxicity | Category 2 - (H411) |
| Flammable liquids | Category 2 - (H225) |

2.2. Label Elements

Contains: Maleic anhydride, Toluene, Methyl ethyl ketone, Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, Rosin



Signal word

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DANGER

Hazard statements

H411 - Toxic to aquatic life with long lasting effects.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

H317 - May cause an allergic skin reaction.

H373 - May cause damage to organs through prolonged or repeated exposure.

H361d - Suspected of damaging the unborn child.

H225 - Highly flammable liquid and vapour.

Precautionary statements

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

P260 - Do not breathe vapour.

P273 - Avoid release to the environment.

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.

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

Additional information

This product requires tactile warnings if supplied to the general public. Placed on the market in aerosol containers or in containers fitted with a sealed spray attachment. .

Reserved for industrial and professional use.

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

Mixture

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 |
|---------------------|-----------|----------|----------|---|--|---------------------------------|
| Methyl ethyl ketone | 201-159-0 | 78-93-3 | 15 - 25 | Eye Irrit. 2 (H319) (EUH066) STOT SE 3 (H336) Flam. Liq. 2 (H225) | | 01-2119457290- 43-XXXX |
| Toluene | 203-625-9 | 108-88-3 | 15 - 25 | Skin Irrit. 2 (H315) | | 01-2119471310- 51-XXXX |

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| | | | | Repr. 2 (H361d) STOT SE 3 (H336) STOT RE 2 (H373) Asp. Tox. 1 (H304) Flam. Liq. 2 (H225) | | |
|--|-----------|-------------|--------------|---|-------------------------------|---------------------------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | | 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 |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | 931-254-9 | | 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 |
| Acetone | 200-662-2 | 67-64-1 | 5 - <10 | Eye Irrit. 2 (H319) (EUH066) STOT SE 3 (H336) Flam. Liq. 2 (H225) | | 01-2119471330- 49-XXXX |
| Zinc oxide | 215-222-5 | 1314-13-2 | 0.1 - <1 | Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) | | 01-2119463881- 32-XXXX |
| Rosin | 232-475-7 | 8050-09-7 | 0.1 - <1 | Skin Sens. 1 (H317) | | 01-2119480418- 32-XXXX |
| Maleic anhydride | 203-571-6 | 108-31-6 | 0.01 - <0.05 | Acute Tox. 4 (H302) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Resp. Sens. 1 (H334) Skin Sens. 1A (H317) STOT RE 1 (H372) (EUH071) | Skin Sens. 1A :: C>=0.001% | 01-2119472428- 31-XXXX |

<u>Full text of H- and EUH-phrases: see section 16</u>
Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

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This product does not contain candidate substances of very high concern at a concentration >=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. 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. Consult an ophthalmologist. Get medical

attention if irritation develops and persists.

Skin contactWash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. May cause an allergic skin reaction. In the case of skin irritation or

allergic reactions see a doctor.

Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Clean mouth with water. Drink 1 or 2 glasses of water. Call a doctor or poison control

centre immediately.

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 Itching. Rashes. Hives. 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 May cause sensitisation in susceptible persons. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Unsuitable extinguishing media Do not use straight streams. CAUTION: Use of water spray when fighting fire may be

inefficient.

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. Product is or contains a sensitiser. May cause sensitisation by skin contact.

Hazardous combustion products Carbon oxides.

5.3. Advice for firefighters

Special protective equipment for Firefighters should wear self-contained breathing apparatus and full firefighting turnout

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fire-fighters 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. Avoid

contact with skin, eyes or clothing. Avoid breathing vapours or mists. Ensure adequate ventilation. 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. Keep

people away from and upwind of spill/leak.

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 Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Methods for containment Dyke far ahead of spill; use dry sand to contain the flow of material. Absorb with earth,

sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled

containers. Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Eliminate all ignition sources if safe to do so.

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

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 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. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and

wash it before reuse. Remove contaminated clothing and shoes.

General hygiene considerations Keep away from food, drink and animal feedingstuffs. Do not eat, drink or smoke when

using this product. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. 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

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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 locked up. Keep out of the reach of children.

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 | Ireland | United Kingdom |
|-----------------------|-----------------------------|------------------------------|------------------------------|
| Methyl ethyl ketone | TWA: 200 ppm | TWA: 200 ppm | TWA: 200 ppm |
| 78-93-3 | TWA: 600 mg/m ³ | TWA: 600 mg/m ³ | TWA: 600 mg/m ³ |
| | STEL: 300 ppm | STEL: 300 ppm | STEL: 300 ppm |
| | STEL: 900 mg/m ³ | STEL: 900 mg/m ³ | STEL: 899 mg/m ³ |
| | | Sk* | Sk* |
| Toluene | TWA: 50 ppm | TWA: 192 mg/m ³ | TWA: 50 ppm |
| 108-88-3 | TWA: 192 mg/m ³ | TWA: 50 ppm | TWA: 191 mg/m ³ |
| | * | STEL: 384 mg/m ³ | STEL: 100 ppm |
| | | STEL: 100 ppm | STEL: 384 mg/m ³ |
| | | Sk* | Sk* |
| Acetone | TWA: 500 ppm | TWA: 500 ppm | TWA: 500 ppm |
| 67-64-1 | TWA: 1210 mg/m ³ | TWA: 1210 mg/m ³ | TWA: 1210 mg/m ³ |
| | - | STEL: 1500 ppm | STEL: 1500 ppm |
| | | STEL: 3630 mg/m ³ | STEL: 3620 mg/m ³ |
| Zinc oxide | - | TWA: 2 mg/m ³ | - |
| 1314-13-2 | | STEL: 10 mg/m ³ | |
| Rosin | - | TWA: 0.05 mg/m ³ | TWA: 0.05 mg/m ³ |
| 8050-09-7 | | STEL: 0.15 mg/m ³ | STEL: 0.15 mg/m ³ |
| Magnesium oxide (MgO) | - | TWA: 4 mg/m ³ | TWA: 10 mg/m ³ |
| 1309-48-4 | | TWA: 5 mg/m ³ | TWA: 4 mg/m ³ |
| | | TWA: 10 mg/m ³ | STEL: 30 mg/m ³ |
| | | STEL: 10 mg/m ³ | STEL: 12 mg/m ³ |
| | | STEL: 12 mg/m ³ | · · |
| | | STEL: 30 mg/m ³ | |

| Chemical name | European Union | Ireland | United Kingdom |
|---------------------|----------------|---------|-----------------|
| Methyl ethyl ketone | - | - | 70 µmol/L urine |
| 78-93-3 | | | |

Derived No Effect Level (DNEL) No information available

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

| Туре | worker Long term Systemic health effects |
|--------------------------------|--|
| Exposure route | Inhalation |
| Derived No Effect Level (DNEL) | 600 mg/m³ |

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| | _ |
|----------------------------------|--|
| Toluene (108-88-3) | |
| Type | Long term Systemic health effects worker |
| Exposure route | Dermal |
| Derived No Effect Level (DNEL) | 384 mg/kg bw/d |
| Туре | Long term Systemic health effects Local health effects worker |
| Exposure route | Inhalation |
| Derived No Effect Level (DNEL) | 192 mg/m³ |
| Туре | Short term Local health effects Systemic health effects worker |
| Exposure route | Inhalation |
| Derived No Effect Level (DNEL) | 384 mg/m³ |
| | |
| Hydrocarbons, C7, n-alkanes, iso | alkanes, cyclics (|
| Туре | worker Long term Systemic health effects |
| Exposure route | Inhalation |
| Derived No Effect Level (DNEL) | 2085 mg/m ³ |
| Туре | worker Long term Systemic health effects |
| Exposure route | Dermal |
| Derived No Effect Level (DNEL) | 300 mg/kg bw/d |
| Delived No Ellect Level (DIVLE) | 500 mg/kg bw/d |
| Acetone (67-64-1) | |
| Туре | Long term Systemic health effects worker |
| Exposure route | Dermal |
| Derived No Effect Level (DNEL) | 186 mg/kg bw/d |
| Туре | Short term Local health effects worker |
| Exposure route | Inhalation |
| Derived No Effect Level (DNEL) | 2420 mg/m³ |
| Туре | Long term Systemic health effects worker |
| Exposure route | Inhalation |
| Derived No Effect Level (DNEL) | 1210 mg/m³ |
| Zinc oxide (1314-13-2) | |
| Type | worker Long term Systemic health effects |
| Exposure route | Inhalation |
| Derived No Effect Level (DNEL) | 5 mg/m³ |
| | |
| Type | worker Long term Local health effects |
| Exposure route | Inhalation |
| Derived No Effect Level (DNEL) | 0.5 mg/m³ |
| Туре | worker Long term Systemic health effects |
| Exposure route | Dermal |
| Derived No Effect Level (DNEL) | 83 mg/kg bw/d |
| Rosin (8050-09-7) | |
| Туре | worker Long term Local health effects |
| Exposure route | Inhalation |
| Derived No Effect Level (DNEL) | 10 mg/m ³ |
| T | Available to a term Overton in health. " |
| Type | worker Long term Systemic health effects Dermal |
| Exposure route | permai |

Derived No Effect Level (DNEL)

2131 mg/kg bw/d

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| Maleic anhydride (108-31-6) | | |
|--------------------------------|---|--|
| Type | worker Long term Systemic health effects | |
| Exposure route | Inhalation | |
| Derived No Effect Level (DNEL) | 0.4 mg/m³ | |
| Туре | worker Short term Systemic health effects | |
| Exposure route | Inhalation | |
| Derived No Effect Level (DNEL) | 0.8 mg/m³ | |
| | | |
| Type | worker Long term Local health effects | |
| Exposure route | Inhalation | |
| Derived No Effect Level (DNEL) | 0.4 mg/m³ | |
| Type | worker Short term Local health effects | |
| Exposure route | Inhalation | |
| Derived No Effect Level (DNEL) | 0.8 mg/m³ | |

| Derived No Effect Level (DNEL) | | | | |
|------------------------------------|---|--|--|--|
| Methyl ethyl ketone (78-93-3) | | | | |
| Туре | Consumer Long term Systemic health effects | | | |
| Exposure route | Dermal | | | |
| Derived No Effect Level (DNEL) | 412 mg/kg bw/d | | | |
| | | | | |
| Туре | Consumer Long term Systemic health effects | | | |
| Exposure route | Inhalation | | | |
| Derived No Effect Level (DNEL) | 106 mg/m ³ | | | |
| | | | | |
| Туре | Consumer Local health effects Systemic health effects | | | |
| Exposure route | Oral | | | |
| Derived No Effect Level (DNEL) | 31 mg/kg bw/d | | | |
| | | | | |
| Hydrocarbons, C7, n-alkanes, iso) | palkanes, cyclics (| | | |
| Туре | Consumer Long term Systemic health effects | | | |
| Exposure route | Inhalation | | | |
| Derived No Effect Level (DNEL) | 447 mg/m ³ | | | |
| | | | | |
| Туре | Consumer Long term Systemic health effects | | | |
| Exposure route | Dermal | | | |
| Derived No Effect Level (DNEL) | 149 mg/kg bw/d | | | |
| | | | | |
| Туре | Consumer Long term Systemic health effects | | | |
| Exposure route | Oral | | | |
| Derived No Effect Level (DNEL) | 149 mg/kg bw/d | | | |
| - | | | | |
| Acetone (67-64-1) | | | | |
| Type | Consumer Long term Systemic health effects | | | |
| Exposure route | Inhalation | | | |
| Derived No Effect Level (DNEL) | 200 mg/m ³ | | | |
| - | | | | |
| Type | Consumer Long term Systemic health effects | | | |
| Exposure route | Dermal | | | |
| Derived No Effect Level (DNEL) | 62 mg/kg bw/d | | | |

Consumer Long term Systemic health effects

Туре

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| | |
|--------------------------------|--|
| Exposure route | Oral |
| Derived No Effect Level (DNEL) | 62 mg/kg bw/d |
| | |
| Zinc oxide (1314-13-2) | |
| Type | Consumer Long term Systemic health effects |
| Exposure route | Inhalation |
| Derived No Effect Level (DNEL) | 2.5 mg/m³ |
| | |
| Туре | Consumer Long term Systemic health effects |
| Exposure route | Dermal |
| Derived No Effect Level (DNEL) | 83 mg/kg bw/d |
| | |
| Type | Consumer Long term Systemic health effects |
| Exposure route | Oral |
| Derived No Effect Level (DNEL) | 0.83 mg/kg bw/d |
| | |
| Rosin (8050-09-7) | |
| Type | Consumer Long term Systemic health effects |
| Exposure route | Dermal |
| Derived No Effect Level (DNEL) | 1065 mg/kg bw/d |
| | |
| Туре | Consumer Long term Systemic health effects |
| Exposure route | Oral |
| | |

Predicted No Effect Concentration No information available. **(PNEC)**

1065 mg/kg bw/d

| Predicted No Effect Concentration (PNEC) | |
|--|--|
| 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 |

| 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 | | | |

| Zinc oxide (1314-13-2) | |
|------------------------------------|--|
| Environmental compartment | Predicted No Effect Concentration (PNEC) |
| Freshwater | 0.0206 mg/l |
| Marine water | 0.0061 mg/l |
| Freshwater sediment | 235.6 mg/kg dry weight |
| Marine sediment | 113 mg/kg dry weight |
| Soil | 106.8 mg/kg dry weight |
| Microorganisms in sewage treatment | 0.1 mg/l |

| Rosin (8050-09-7) | |
|---------------------------|--|
| Environmental compartment | Predicted No Effect Concentration (PNEC) |
| Freshwater | 0.002 mg/l |
| Marine water | 0 mg/l |

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| Sewage treatment plant | 1000 mg/l |
|------------------------|------------|
| Freshwater sediment | 0.007 mg/l |
| Marine sediment | 0.001 mg/l |

| Maleic anhydride (108-31-6) | |
|------------------------------------|--|
| Environmental compartment | Predicted No Effect Concentration (PNEC) |
| Freshwater | 0.1 mg/l |
| Marine water | 0.01 mg/l |
| Microorganisms in sewage treatment | 44.6 mg/l |
| Freshwater sediment | 0.334 mg/kg dry weight |
| Marine water | 0.033 mg/kg dry weight |
| Soil | 0.042 mg/kg dry weight |

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.

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. Wear appropriate

personal protective clothing to prevent skin contact. Suitable protective clothing.

Respiratory protection In case of mist, spray or aerosol exposure wear suitable personal respiratory protection

and protective suit. In case of inadequate ventilation wear respiratory protection.

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 Liquid, Viscous Colour Amber, Off-white

Odour Solvent

Odour threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH No data available

Melting point / freezing point No data available

Boiling point / boiling range >= 48 °C

Flash point <= -20 °C CC (closed cup)

Evaporation rate No data available Flammability (solid, gas) Not applicable for liquids .

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapour pressureNo data availableVapour densityNo data available

Relative density 0.9

Water solubility
Solubility(ies)
Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
Insoluble in water
No data available
No data available
No data available
> 2500 mm²/s

Dynamic viscosity 2250 - 2750 mPa s @ 23 °C

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Explosive propertiesNo data available **Oxidising properties**No data available

9.2. Other information

Solid content (%) >= 22

 VOC Content (%)
 approx. 700 g/L

 Density
 0.85 g/cm³

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 None.

impact

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 Strong acids. Strong bases. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition

products

Carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information .

Inhalation May cause irritation of respiratory tract. May cause drowsiness or dizziness.

Eye contact Irritating to eyes. Causes serious eye irritation.

Skin contact May cause sensitisation by skin contact. Specific test data for the substance or mixture

is not available. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons. (based on components). Causes skin irritation.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

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Symptoms Itching. Rashes. Hives. Re

Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes. Inhalation of high vapour 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

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|--|--|--|
| Methyl ethyl ketone 78-93-3 | =2483 mg/kg (Rattus) | = 5000 mg/kg (Oryctolagus cuniculus) | =11700 ppm (Rattus) 4 h |
| Toluene 108-88-3 | =5580 mg/kg (Rattus) | = 12000 mg/kg (Oryctolagus cuniculus) | >20 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) |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | >16750 mg/Kg (Rattus) | >3350 mg/Kg (Oryctolagus cuniculus) OECD 402 | 259354 mg/m³ (vapour) (rat OECD 403) |
| Acetone 67-64-1 | =5800 mg/kg (Rattus) | >15800 mg/Kg (Rattus) | =79 mg/l(Rattus) 4 h |
| Zinc oxide 1314-13-2 | >5000 mg/kg (Rattus) | LD50 >2000 mg/Kg (Rattus) (OECD 402) | LC50 (4h) >5.7 mg/l |
| Rosin 8050-09-7 | >2000 mg/Kg (Rattus) | > 2500 mg/kg (Oryctolagus cuniculus) | =1.5 mg/L (Rattus) 4 h |
| Maleic anhydride 108-31-6 | LD50 = 1090 mg/kg (Rattus) OECD 401 | = 2620 mg/kg (Oryctolagus cuniculus) | >4.35 mg/L (Rattus) 1 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. Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitisation May cause sensitisation by skin contact.

| Component Information | | | | | | |
|---|-----------------------------|----------------|-------------|--|--|--|
| Maleic anhydride (108-31-6) | Maleic anhydride (108-31-6) | | | | | |
| Method | Species | Exposure route | Results | | | |
| OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay | Mouse | Injection | sensitising | | | |
| Not available | Rat | Inhalation | sensitising | | | |

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

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

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Reproductive toxicity Classification based on da

Classification based on data available for ingredients. Contains a known or suspected reproductive toxin. The table below indicates ingredients above the cut-off threshold

considered as relevant which are listed as reproductive toxins.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

| Chemical name | European Union |
|---------------|----------------|
| Toluene | Repr. 2 |
| 108-88-3 | |

| Component Information | | |
|-------------------------------|---------|-----------------------|
| Methyl ethyl ketone (78-93-3) | | |
| Toluene (108-88-3) | | |
| Method | Species | Results |
| OECD 407 | in vivo | reproductive toxicant |

STOT - single exposure May cause drowsiness or dizziness.

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

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

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Toxic to aquatic life with long lasting effects.

| Chemical name | Algae/aquatic | Fish | Toxicity to | Crustacea | M-Factor | M-Factor |
|------------------------|-----------------|-----------------|-----------------|-----------------|----------|-------------|
| | plants | | Micro-organisms | | | (long-term) |
| Methyl ethyl ketone | EC50=1972 | LC50: 3130 - | EC50 = 3403 | EC50 48 h > | | |
| 78-93-3 | mg/l | 3320mg/L (96h, | mg/L 30 min | 308 mg/L | | |
| | (Pseudokirchner | Pimephales | EC50 = 3426 | (Daphnia magna | | |
| | iella | promelas) | mg/L 5 min |) | | |
| | subcapitata) | | | | | |
| Toluene | EC50 72 h = | LC50 96 h 5.89 | EC50 = 19.7 | EC50: | | |
| 108-88-3 | 12.5 mg/L | - 7.81 mg/L | mg/L 30 min | =11.5mg/L (48h, | | |
| | (Pseudokirchner | (Oncorhynchus | | Daphnia magna) | | |
| | iella | mykiss | | EC50: 5.46 - | | |
| | subcapitata) | flow-through) | | 9.83mg/L (48h, | | |
| | | LC50 96 h = 5.8 | | Daphnia magna) | | |
| | | mg/L | | | | |
| | | (Oncorhynchus | | | | |
| | | mykiss | | | | |
| | | semi-static) | | | | |
| Hydrocarbons, C7, | ErL50 (72h) = | LL50 (96h) | - | EL50 (48h) = | | |
| n-alkanes, isoalkanes, | 10-30 mg/L | >13.4 mg/L | | 3.0 mg/L | | |
| cyclics | (Pseudokirchner | (Oncorhynchus | | (Daphnia | | |
| | iella | mykiss) | | magna) | | |
| | subcapitata) | OECD 203 | | | | |
| Hydrocarbons, C6, | EL50 (72h) = | LL50 (96h) = | - | EL50 (48h)= | | |
| isoalkanes, <5% | 13.6 mg/l | 18.27 mg/l | | 31.9 mg/l | | |
| n-hexane | (Pseudokirchner | (Oncorhynchus | | (Daphnia | | |
| | iella | mykiss) | | magna) | | |
| | subcapitata) | | | · | | |
| Acetone | - | LC50 96 h 4.74 | EC50 = 14500 | EC50 48 h | | |
| 67-64-1 | | - 6.33 mL/L | mg/L 15 min | 10294 - 17704 | | |

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| | | (Oncorhynchus | | mg/L (Daphnia | | |
|------------------|----------------|-----------------|-------------|----------------|---|---|
| | | mykiss) | | magna Static) | | |
| Zinc oxide | LC 50 (72Hr) | LC50 (96h) =0.7 | - | LC 50 (48Hr) | 1 | 1 |
| 1314-13-2 | 0.136 mg/L | mg/L (Danio | | =0.5 mg/l | | |
| | | rerio) | | (Ceriodaphnia | | |
| | | · | | dubia) | | |
| Rosin | EC50: | LC50 (96h) | EC50 = 31.5 | EC50 48 h | | |
| 8050-09-7 | =400mg/L (72h, | >10mg/L | mg/L 30 min | >100 mg/L | | |
| | Desmodesmus | (Danio rerio) | | (Daphnia magna | | |
| | subspicatus) | | |) | | |
| Maleic anhydride | EC50: =29mg/L | LC50 (96h) = 75 | - | EC50: =84mg/L | | |
| 108-31-6 | (72h, | mg/L | | (24h, Daphnia | | |
| | Desmodesmus | (Oncorhynchus | | magna) | | |
| | subspicatus) | mykiss) | | | | |

12.2. Persistence and degradability

Persistence and degradability No information available.

| Component Information Methyl ethyl ketone (78-93-3) | | | | |
|---|---------------|----------------|----------------------------|--|
| Method | Exposure time | Value | Results | |
| OECD Test No. 301D: Ready Biodegradability: Closed Bottle Test (TG 301 D) | , | biodegradation | 98 % Readily biodegradable | |

| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics () | | | | | |
|---|---------|-----|-----------------------|--|--|
| Method Exposure time Value Results | | | | | |
| OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F) | 28 days | 83% | Readily biodegradable | | |

| Zinc oxide (1314-13-2) | | | | | |
|------------------------------------|--|--|-----------------------------|--|--|
| Method Exposure time Value Results | | | | | |
| | | | The methods for determining | | |
| | | | biodegradability are not | | |
| | | | applicable to inorganic | | |
| | | | substances | | |

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

| Chemical name | Partition coefficient | Bioconcentration factor (BCF) |
|--|-----------------------|-------------------------------|
| Methyl ethyl ketone | 0.3 | - |
| 78-93-3 | | |
| Toluene | 2.7 | - |
| 108-88-3 | | |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | 3.6 | 501 |
| | | |
| Acetone | -0.24 | 0.69 |
| 67-64-1 | | |
| Maleic anhydride 108-31-6 | -2.61 | - |

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12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

| Chemical name | PBT and vPvB assessment |
|--------------------------------|--|
| Methyl ethyl ketone 78-93-3 | The substance is not PBT / vPvB |
| Toluene 108-88-3 | The substance is not PBT / vPvB PBT assessment does not apply |
| Acetone 67-64-1 | The substance is not PBT / vPvB |
| Zinc oxide 1314-13-2 | The substance is not PBT / vPvB PBT assessment does not apply |
| Rosin 8050-09-7 | The substance is not PBT / vPvB Further information relevant for the PBT assessment is necessary |
| Maleic anhydride 108-31-6 | The substance is not PBT / vPvB PBT assessment does not apply |

12.6. Other adverse effects

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 shipping descriptions shown here are for bulk shipments only, and may not apply to

shipments made in non-bulk packages (see regulatory definition). The information shown here, may not always agree with the bill of lading shipping description for the material.

Land transport (ADR/RID)

14.1 UN Number UN1133

14.2 Proper Shipping Name Adhesives, Environmentally Hazardous

14.3 Transport hazard class(es) 3 Labels 3 14.4 Packing Group

Description UN1133, Adhesives, 3, II, (D/E), Environmentally Hazardous

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14.5 Environmental hazards
14.6 Special Provisions
Classification Code
Tunnel restriction code
Limited Quantity (LQ)
ADR Hazard Id (Kemmler

Yes
640C
F1
(D/E)
5 L
33

Number)

IMDG

14.1 UN number UN1133

14.2 Proper Shipping Name Adhesives (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics), Marine Pollutant

14.3 Transport hazard class(es)14.4 Packing group

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 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number UN1133 **14.2 Proper Shipping Name** Adhesives

14.3 Transport hazard class(es)14.4 Packing group

Description UN1133, Adhesives, 3, II

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 >=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 |
|---------------|----------|---|
| Toluene | 108-88-3 | 48. |

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48 . Reserved for industrial and professional use. Adhesives or spray paint shall not be placed on the market containing above substance equal to or greater than 0.1% where supplied to the general public.

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

or

P5b - FLAMMABLE LIQUIDS

or

P5c - FLAMMABLE LIQUIDS E2 - Hazardous to the Aquatic Environment in Category Chronic 2

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

Not applicable

Persistent Organic Pollutants

Not applicable

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

EUH071 - Corrosive to the respiratory tract

H225 - Highly flammable liquid and vapour

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H314 - Causes severe skin burns and eye damage

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H336 - May cause drowsiness or dizziness

H361d - Suspected of damaging the unborn child

H372 - Causes damage to organs through prolonged or repeated exposure

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H411 - Toxic 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

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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

Key literature references and sources for data

No information available

Prepared By Product Safety & Regulatory Affairs

Revision date 27-Apr-2020

Indication of changes

Revision note SDS sections updated: 14.

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



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

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

1.1. Product identifier

Product Name BOSTIKURE D HARDENER

Pure substance/mixture Mixture

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

Recommended use Hardener.
Uses advised against Consumer use

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

United Kingdom +44 (1785) 272650

+353 (1) 8624900 (Monday- Friday 9am-5pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

| Acute toxicity - Inhalation (Vapours) | Category 4 - (H332) |
|--|--------------------------|
| Skin corrosion/irritation | Category 2 - (H315) |
| Serious eye damage/eye irritation | Category 2 - (H319) |
| Respiratory sensitisation | Category 1 - (H334) |
| Skin sensitisation | Category 1 - (H317) |
| Carcinogenicity | Category 2 - (H351) |
| Specific target organ toxicity — single exposure | Category 3 - (H335,H336) |
| Specific target organ toxicity — repeated exposure | Category 2 - (H373) |

2.2. Label elements

Contains Methylene chloride, Isocyanic acid, polymethylenepolyphenylene ester



Signal word Danger

Hazard statements

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

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H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

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H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 - May cause respiratory irritation.

H336 - May cause drowsiness or dizziness.

H351 - Suspected of causing cancer.

H373 - May cause damage to organs through prolonged or repeated exposure.

EU Specific Hazard Statements

EUH204 - Contains isocyanates. May produce an allergic reaction

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

P260 - Do not breathe vapour

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves and eye/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor

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

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

Special provisions concerning the labelling of certain mixtures

Reserved for industrial and professional use. As from 24 August 2023 adequate training is required before industrial or professional use.

Additional information

This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

May be harmful in contact with skin. 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 |
|--------------------|-----------|---------|----------|--|--|---------------------------------|
| Methylene chloride | 200-838-9 | 75-09-2 | 80 - 100 | STOT SE 3 (H335) STOT SE 3 (H336) STOT RE 2 (H373) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Carc. 2 (H351) | | 01-2119480404- 41-XXXX |

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NOTE [7] - No registration number is given for this substance because it is a polymer exempted from registration according to the provisions of Article 2(9) of REACH. All monomers or other substances within the polymer are registered or exempt from registration

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

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

This product does not contain candidate substances of very high concern at a concentration >=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. IF exposed or concerned: Get

medical advice/attention.

Inhalation May cause allergic respiratory reaction. If breathing has stopped, give artificial

respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical

advice/attention.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

Skin contact May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see

a doctor. Wash off immediately with soap and plenty of water for at least 15 minutes.

Ingestion May produce an allergic reaction. Do NOT induce vomiting. Rinse mouth. Never give

anything by mouth to an unconscious person. Get immediate medical advice/attention.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth

resuscitation. Use personal protective equipment as required. See section 8 for more

information. Avoid breathing vapours or mists.

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

Symptoms May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/

or wheezing. Itching. Rashes. Hives. 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. Difficulty in breathing.

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

Note to doctors May cause sensitisation in susceptible persons. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

Product is or contains a sensitiser. May cause sensitisation by inhalation and skin

contact. May cause sensitisation by skin contact.

Carbon monoxide. Carbon dioxide (CO2). Hydrogen chloride. Nitrogen oxides (NOx). **Hazardous combustion products**

Hydrogen cyanide. Isocyanates.

5.3. Advice for firefighters

precautions for fire-fighters

Special protective equipment and Firefighters should wear self-contained breathing apparatus and full firefighting turnout

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gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak. Avoid breathing vapours or mists.

Other information 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 Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

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

Handle in accordance with good industrial hygiene and safety practice. Avoid contact Advice on safe handling

with skin, eyes or clothing. Ensure adequate ventilation. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory

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equipment. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash it before reuse. Avoid breathing vapours or mists.

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General hygiene considerations

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Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. 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. Store locked up.

Keep out of the reach of children. Protect from moisture.

Recommended storage temperature

Keep at temperatures between 5 and 25 °C. Keep at temperatures between 2 and 10 °C.

7.3. Specific end use(s)

Specific use(s) Hardener.

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 |
|--|-----------------------------|-------------------------------|
| Methylene chloride | TWA: 353 mg/m ³ | TWA: 353 mg/m ³ |
| 75-09-2 | TWA: 100 ppm | TWA: 100 ppm |
| | STEL: 706 mg/m ³ | STEL: 200 ppm |
| | STEL: 200 ppm | STEL: 706 mg/m ³ |
| | * | Sk* |
| Isocyanic acid, polymethylenepolyphenylene ester | - | TWA: 0.02 mg/m ³ |
| 9016-87-9 | | STEL: 0.07 mg/m³ SEN; as -NCO |

| Chemical name | European Union | Ireland | United Kingdom |
|--------------------|----------------|------------------------------------|-------------------------|
| Methylene chloride | - | 4 % hemoglobin (blood - | 30 ppm end-tidal breath |
| 75-09-2 | | Carboxyhemoglobin measure at | |
| | | end of shift) | |
| | | 0.3 mg/L (urine - Methylene | |
| | | chloride measure at end of shift) | |
| | | 1 mg/L (blood - Methylene chloride | |
| | | measure at end of shift) | |

Derived No Effect Level (DNEL) No information available

| Derived No Effect Level (DNEL) | | | | |
|---|----------------|--------------------------------|---------------|--|
| Methylene chloride (75-09-2) | | | | |
| Туре | Exposure route | Derived No Effect Level (DNEL) | Safety factor | |
| worker Short term Systemic health effects | Inhalation | 706 mg/m³ | | |
| worker Long term Systemic health effects | Dermal | 4750 mg/kg bw/d | | |
| worker Long term | Inhalation | 353 mg/m³ | | |

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| | | |
|-------------------------|------|--|
| Systemic health effects | | |

| Derived No Effect Level (DNEL) | | | | | |
|---|----------------|--------------------------------|---------------|--|--|
| Methylene chloride (75-09-2) | | | | | |
| Туре | Exposure route | Derived No Effect Level (DNEL) | Safety factor | | |
| Consumer Short term Systemic health effects | Inhalation | 353 mg/m³ | | | |
| Consumer Long term Systemic health effects | Dermal | 2395 mg/kg bw/d | | | |
| Consumer Long term Local health effects | Oral | 0.06 mg/kg bw/d | | | |
| Consumer Long term Local health effects | Inhalation | 88.3 mg/m³ | | | |

Predicted No Effect Concentration No information available. **(PNEC)**

| Predicted No Effect Concentration (PNEC) | |
|--|--|
| Methylene chloride (75-09-2) | |
| Environmental compartment | Predicted No Effect Concentration (PNEC) |
| Freshwater | 0.54 mg/l |
| Freshwater sediment | 4.47 mg/kg dry weight |
| Marine water | 0.194 mg/kg dry weight |
| Marine sediment | 1.61 mg/kg dry weight |
| Soil | 0.583 mg/kg dry weight |

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 protectionWear appropriate personal protective clothing to prevent skin contact. 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 Liquid
Colour Brown

Odour No information available Odour threshold No information available

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Values Remarks • Method **Property**

No data available Ηq Not applicable Insoluble in water pH (as aqueous solution) No data available

Melting point / freezing point No data available 40 °C

Initial boiling point and boiling

range

Flash point No data available **Evaporation rate** No data available **Flammability** Not applicable for liquids .

Flammability Limit in Air

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Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

No data available Vapour pressure Relative vapour density No data available

Relative density 0.7 - 1.3 None known

No data available Water solubility Solubility(ies) No data available **Partition coefficient** No data available **Autoignition temperature** No data available No data available **Decomposition temperature** No data available Kinematic viscosity **Dynamic viscosity** No data available No data available **Explosive properties Oxidising properties** No data available

9.2. Other information

No information available Solid content (%)

VOC Content (%)

Density No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available. Reactivity

10.2. Chemical stability

Stable under normal conditions. Stability

Explosion data

Sensitivity to mechanical None.

impact

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Excessive heat. Protect from moisture.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

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Hazardous decomposition

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products

None under normal use conditions. Stable under recommended storage conditions.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause sensitisation

in susceptible persons. (based on components). May cause irritation of respiratory tract.

May cause drowsiness or dizziness. Harmful by inhalation.

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. Repeated or prolonged

skin contact may cause allergic reactions with susceptible persons. (based on components). May cause sensitisation by skin contact. Causes skin irritation.

Ingestion Specific test data for the substance or mixture is not available. May cause additional

affects as listed under "Inhalation". Ingestion may cause gastrointestinal irritation,

nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing,

tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes. Inhalation of high vapour 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 (dermal) 2,452.80 mg/kg ATEmix (inhalation-dust/mist) 7.50 mg/l ATEmix (inhalation-vapour) 11.00 mg/l

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|----------------------------|-----------------------------|-------------------------|------------------------|
| Methylene chloride | >2000 mg/kg (Rattus) | > 2000 mg/kg (Rat) | >86 mg/L (Rattus) 4 h |
| 75-09-2 | 1.5 | | |
| Isocyanic acid, | LD50 > 10000 mg/kg (Rattus) | LD 50 > 9400 mg/kg | =1.5 mg/L (Rattus) 4 h |
| polymethylenepolyphenylene | | (Oryctolagus cuniculus) | |
| ester | | | |
| 9016-87-9 | | | |

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.

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

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Respiratory or skin sensitisation May cause sensitisation by inhalation. May cause sensitisation by skin contact.

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

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for

ingredients. Suspected of causing cancer.

| Chemical name | European Union | |
|--------------------|----------------|--|
| Methylene chloride | Carc. 2 | |
| 75-09-2 | | |

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Reproductive toxicityBased on available data, the classification criteria are not met.

STOT - single exposure May cause respiratory irritation. May cause drowsiness or dizziness.

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

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

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Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

| Chemical name | Algae/aquatic | Fish | Toxicity to | Crustacea | M-Factor | M-Factor |
|--------------------|-------------------|-----------------|----------------|----------------|----------|-------------|
| | plants | | microorganisms | | | (long-term) |
| Methylene chloride | EC50: | LC50: | EC50 = 1 mg/L | EC50 48 h = 27 | | |
| 75-09-2 | >500mg/L (72h, | =193mg/L (96h, | 24 h | mg/L (Daphnia | | |
| | Pseudokirchneri | Lepomis | EC50 = 2.88 | magna) | | |
| | ella subcapitata) | macrochirus) | mg/L 15 min | | | |
| | EC50: | LC50: 140.8 - | | | | |
| | >500mg/L (96h, | 277.8mg/L (96h, | | | | |
| | Pseudokirchneri | Pimephales | | | | |
| | ella subcapitata) | promelas) LC50: | | | | |
| | | 262 - 855mg/L | | | | |
| | | (96h, | | | | |
| | | Pimephales | | | | |
| | | promelas) | | | | |
| Isocvanic acid. | ErC50 (72h) | CL50 (96h) | - | EC50 (24H) | | |

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| polymethylenepolyphen ylene ester 9016-87-9 | Algae (scenedesmus | >1000 mg/L (Danio rerio) | >1000 mg/L Daphnia magna | |
|---|-----------------------|-----------------------------|-----------------------------|--|
| | subspicatus) | | | |
| | (OECD 201) | | | |

12.2. Persistence and degradability

Persistence and degradability No information available.

| Component Information | | | | | |
|--|---------------|-------------------|---------------------------|--|--|
| Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9) | | | | | |
| Method | Exposure time | Value | Results | | |
| OECD Test No. 302C: Inherent | 28 days | 0% biodegradation | Not readily biodegradable | | |
| Biodegradability: Modified MITI Test | - | | | | |
| (II) | | | | | |

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

| Chemical name | Partition coefficient | Bioconcentration factor (BCF) |
|----------------------------------|-----------------------|-------------------------------|
| Methylene chloride | 1.25 | 40 |
| 75-09-2 | | |
| Isocyanic acid, | - | < 14 |
| polymethylenepolyphenylene ester | | |
| 9016-87-9 | | |

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 |
|--------------------|---------------------------------|
| Methylene chloride | The substance is not PBT / vPvB |
| 75-09-2 | |

12.6. Other adverse effects

Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty 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

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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 shipping descriptions shown here are for bulk shipments only, and may not apply to

shipments made in non-bulk packages (see regulatory definition). The information shown here, may not always agree with the bill of lading shipping description for the material.

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Land transport (ADR/RID)

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14.1 UN number or ID number UN1593

14.2 Proper Shipping Name Dichloromethane

14.3 Transport hazard class(es) 6.1 Labels 6.1 14.4 Packing group

Description UN1593, Dichloromethane, 6.1, III, (E)

14.5 Environmental hazards Not applicable

14.6 Special Provisions 516
Classification code T1
Tunnel restriction code (E)
Limited Quantity (LQ) 5 L
ADR Hazard Id (Kemmler 60

Number)

IMDG

14.1 UN number or ID number UN1593

14.2 Proper Shipping Name Dichloromethane

14.3 Transport hazard class(es) 6.1 **14.4 Packing group** III

Description UN1593, Dichloromethane, 6.1, III

 14.5 Marine pollutant
 NP

 14.6 Special Provisions
 None

 Limited Quantity (LQ)
 5 L

 EmS-No
 F-A, S-A

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number UN1593

14.2 Proper Shipping Name Dichloromethane

14.3 Transport hazard class(es) 6.1 **14.4 Packing group** III

Description UN1593, Dichloromethane, 6.1, III

14.5 Environmental hazards Not applicable

14.6 Special Provisions None Limited Quantity (LQ) 2 L ERG Code 6L

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

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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 >=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 |
|--|-----------|---|
| Methylene chloride | 75-09-2 | 59. |
| Isocyanic acid, polymethylenepolyphenylene ester | 9016-87-9 | 56 |
| | | 74. |
| Diisocyantes | | 74 |
| | | |

Dichloromethane (CAS 75-09-2) is restricted from being placed on the market for general public when used in paint strippers Further handling and use restrictions apply when used in industrial/professional paint stripping products. 56. If product supplied to the general public with substance ≥0.1%, then gloves must be provided with the product.

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)

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

Not applicable

Persistent Organic Pollutants

Not applicable

National regulations

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. 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

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H351 - Suspected of causing cancer

H373 - May cause damage to organs through prolonged or repeated exposure

Legend

TWA TWA (time-weighted average)

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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

Key literature references and sources for data

No information available

BOSTIKURE D HARDENER

Prepared By Product Safety & Regulatory Affairs

Revision date 04-Aug-2021

Indication of changes

Revision note Not applicable.

Training Advice Provide adequate information, instruction, and training for operator AS FROM 24

AUGUST 2023 ADEQUATE TRAINING IS REQUIRED BEFORE INDUSTRIAL OR

Revision date 04-Aug-2021

PROFESSIONAL USE

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

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