



Safety Data Sheet

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

BOSTIK 3206E ADHESIVE
 Supersedes Date: 29-Jun-2016

Revision Date 29-Aug-2018
 Revision Number 1.02

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Name BOSTIK 3206E ADHESIVE
Pure substance/mixture Mixture

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

Recommended use Adhesives.
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

Classification according to Regulation (EC) No. 1272/2008 [CLP]

| | |
|--|---------------------|
| Skin Corrosion/Irritation | Category 2 - (H315) |
| Serious eye damage/eye irritation | Category 2 - (H319) |
| Reproductive toxicity | Category 2 - (H361) |
| Specific target organ toxicity (single exposure) | Category 3 - (H336) |
| Specific target organ toxicity (repeated exposure) | Category 2 - (H373) |
| Flammable liquids | Category 2 - (H225) |

2.2. Label Elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Contains Toluene, Methyl ethyl ketone, Acetone



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Signal word
DANGER

Hazard statements

H373 - May cause damage to organs through prolonged or repeated exposure
H319 - Causes serious eye irritation
H315 - Causes skin irritation
H336 - May cause drowsiness or dizziness
H361d - Suspected of damaging the unborn child
H225 - Highly flammable liquid and vapour

EU Specific Hazard Statements

EUH066 - Repeated exposure may cause skin dryness or cracking

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

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves and eye/face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information

This product requires tactile warnings if supplied to the general public

2.3. Other Hazards

General Hazards

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

PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or 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 | >25 - <40 | Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225) (EUH066) | | 01-2119457290-43 -XXXX |
| Acetone | 200-662-2 | 67-64-1 | >25 - <40 | Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225) (EUH066) | | 01-2119471330-49 -XXXX |
| Toluene | 203-625-9 | 108-88-3 | 10 - <20 | Skin Irrit. 2 (H315) Repr. 2 (H361d) STOT SE 3 (H336) STOT RE 2 (H373) Asp. Tox. 1 (H304) Flam. Liq. 2 (H225) | | 01-2119471310-51 -XXXX |

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

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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 $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

| | |
|---|---|
| General Advice | If medical advice is needed, have product container or label at hand. |
| Inhalation | Remove to fresh air. |
| Skin Contact | Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. |
| Eye contact | Remove contact lenses, if present and easy to do. Continue rinsing. Call a doctor immediately. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. |
| Ingestion | If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. |
| Self-Protection of the First Aider | Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. |

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

Symptoms None known.

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

Suitable Extinguishing Media

Use CO₂, dry chemical, or foam. Move containers from fire area if you can do it without risk.

Unsuitable Extinguishing Media

Use water spray or fog; do not use straight streams

5.2. Special hazards arising from the substance or mixture

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

5.3. Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas.

Water spray may reduce vapour; but may not prevent ignition in closed spaces.

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For emergency responders

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.2. Environmental precautions

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

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. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Methods for cleaning up Use clean non-sparking tools to collect absorbed material. Dyke far ahead of spill for later disposal.

6.4. Reference to other sections

Reference to other sections See Section 12: ECOLOGICAL INFORMATION
 Section 7: HANDLING AND STORAGE
 Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Take precautionary measures against static charges. Use explosion-proof electrical/ ventilating/ lighting/ equipment.

General Hygiene Considerations

Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep only in the original container/package in a cool well-ventilated place.

7.3. Specific end use(s)

Specific Use(s)

Adhesives.

Other Information

Observe technical data sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

| Chemical Name | European Union | Ireland | United Kingdom |
|--------------------------------|--|--|--|
| 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: 900 mg/m ³ Skin nota. | STEL: 300 ppm STEL: 899 mg/m ³ TWA: 200 ppm TWA: 600 mg/m ³ Skin |
| Acetone 67-64-1 | TWA: 500 ppm TWA: 1210 mg/m ³ | TWA: 500 ppm TWA: 1210 mg/m ³ STEL: 1500 ppm STEL: 3630 mg/m ³ | STEL: 1500 ppm STEL: 3620 mg/m ³ TWA: 500 ppm TWA: 1210 mg/m ³ |

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| | | | |
|---------------------|---|---|---|
| Toluene 108-88-3 | TWA: 50 ppm TWA: 192 mg/m ³ STEL: 100ppm STEL: 384mg/m ³ S* | TWA: 50 ppm TWA: 192 mg/m ³ STEL: 384 mg/m ³ STEL: 100 ppm Skin nota. | STEL: 100 ppm STEL: 384 mg/m ³ TWA: 50 ppm TWA: 191 mg/m ³ Skin |
|---------------------|---|---|---|

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

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. Suitable protective clothing. Apron. |
| 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 |
| Colour | Colourless |
| Odour | Solvent |
| Odour Threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--|--------------------------|-------------------------|
| pH | No information available | |
| Melting point / freezing point | No information available | |
| Boiling point / boiling range | 56 °C / 132.8 °F | |
| Flash Point | -20 °C / -4 °F | |
| Evaporation Rate | No information available | |
| Flammability (solid, gas) | No information available | |
| Flammability Limit in Air | | |
| Upper flammability or explosive limits | No information available | |
| Lower flammability or explosive limits | No information available | |
| Vapour Pressure | No information available | |
| Vapour Density | No information available | |
| Relative Density | No information available | |
| Water Solubility | Insoluble in water | |
| Solubility in Other Solvents | No information available | |
| Partition coefficient | No information available | |
| Autoignition Temperature | No information available | |
| Decomposition Temperature | No information available | |
| Explosive Properties | No information available | |
| Oxidising Properties | No information available | |
| Kinematic Viscosity | > 500 mm ² /s | @ 40°C None known |
| Dynamic Viscosity | approx. 3000 mPa s | @ 25 °C |

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9.2. Other information

| | |
|--|--------------------------|
| Softening Point | No information available |
| Molecular Weight | No information available |
| Solvent content (%) | No information available |
| Solid content (%) | approx. 22 |
| Density | 0.9 |
| Bulk Density | No data available |
| VOC (volatile organic compound) | No information available |

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable under recommended storage conditions.

10.2. Chemical stability

Stable under recommended storage conditions.

Explosion Data

| | |
|----------------------------------|---|
| Sensitivity to Mechanical Impact | None. |
| Sensitivity to Static Discharge | May be ignited by friction, heat, sparks or flames. |

10.3. Possibility of hazardous reactions

Possibility of Hazardous Reactions

None under normal processing.

10.4. Conditions to avoid

Keep away from heat, sparks and flames.

10.5. Incompatible materials

Strong acids and bases.

10.6. Hazardous decomposition products

Carbon oxides.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

No information or data specific to the product on this toxicological (health) effect is available.

| | |
|----------------------|------------------------------|
| Inhalation | No data available. |
| Eye contact | Severely irritating to eyes. |
| Skin Contact | Irritating to skin. |
| Ingestion | No data available. |
| Sensitisation | No data available. |

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

Skin Corrosion/Irritation Not applicable.

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| | |
|--|--|
| Serious eye damage/eye irritation | Not applicable. |
| Sensitisation | Not applicable. |
| Germ Cell Mutagenicity | Not applicable. |
| Carcinogenicity | Not applicable. |
| Reproductive Toxicity | Contains a known or suspected reproductive toxin. |
| STOT - single exposure | Based on available data, the classification criteria are not met. |
| STOT - repeated exposure | Causes damage to organs through prolonged or repeated exposure. |
| Target Organ Effects | Central nervous system, Eyes, Kidney, Liver, Respiratory system, Skin. |
| Aspiration hazard | Based on available data, the classification criteria are not met. |

Numerical measures of toxicity

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document mg/kg mg/l

Component Information

Toxicity Data Data obtained on the component(s) include

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--------------------------------|----------------------|--------------------------|-------------------------|
| Methyl ethyl ketone 78-93-3 | = 2483 mg/kg (Rat) | = 5000 mg/kg (Rabbit) | = 11700 ppm (Rat) 4 h |
| Acetone 67-64-1 | = 5800 mg/kg (Rat) | >15800 mg/Kg (rat) | = 79 mg/l(Rat) 4 h |
| Toluene 108-88-3 | = 5580 mg/kg (Rat) | = 12000 mg/kg (Rabbit) | > 20 mg/L (Rat) 4 h |

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity No information available

Component Information

Data obtained on the component(s) include

| Chemical Name | Algae/aquatic plants | Fish | Crustacea | M-Factor |
|--------------------------------|---|--|---|----------|
| Methyl ethyl ketone 78-93-3 | EC50=1972 mg/l (Pseudokirchneriella subcapitata) | LC50 96 h 3130 - 3320 mg/L (Pimephales promelas flow-through) | EC50 48 h > 308 mg/L (Daphnia magna) | |
| Acetone 67-64-1 | - | LC50 96 h 4.74 - 6.33 mL/L (Oncorhynchus mykiss) | EC50 48 h 10294 - 17704 mg/L (Daphnia magna Static) | |
| Toluene 108-88-3 | EC50 72 h = 12.5 mg/L (Pseudokirchneriella subcapitata) | LC50 96 h 5.89 - 7.81 mg/L (Oncorhynchus mykiss flow-through) LC50 96 h = 5.8 mg/L (Oncorhynchus mykiss semi-static) | EC50 48 h = 11.5 mg/L (Daphnia magna) EC50 48 h 5.46 - 9.83 mg/L (Daphnia magna Static) | |

12.2. Persistence and degradability

No information available.

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12.3. Bioaccumulative potential

No information available.

Partition coefficient No information available

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No information available

Endocrine Disruptor Information

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Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

| | |
|--|---|
| Waste from Residues/Unused Products | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| Contaminated Packaging | Improper disposal or reuse of this container may be dangerous and illegal. |
| European Waste Catalogue | 08 04 09* waste adhesives and sealants containing organic solvents or other 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

Land transport (ADR/RID)

| | |
|--|---------------------------|
| 14.1 UN Number | UN1133 |
| 14.2 Proper Shipping Name | Adhesives |
| 14.3 Transport hazard class(es) | 3 |
| Labels | 3 |
| 14.4 Packing Group | III |
| Description | UN1133, Adhesives, 3, III |
| 14.5 Environmental hazards | Not applicable |
| 14.6 Special Provisions | 640E |
| Classification Code | F1 |
| Tunnel restriction code | D/E |
| Limited Quantity (LQ) | 5 L |
| ADR Hazard Id (Kemmler Number) | 30 |

IMDG

| | |
|--|---|
| 14.1 UN Number | UN1133 |
| 14.2 Proper Shipping Name | Adhesives |
| 14.3 Transport hazard class(es) | 3 |
| 14.4 Packing Group | III |
| Description | UN1133, Adhesives, 3, III, (-20°C c.c.) |

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14.5 Marine Pollutant Np
 14.6 Special Provisions 223, 955
 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 No information available

Air transport (ICAO-TI / IATA-DGR)

14.1 UN Number UN1133
 14.2 Proper Shipping Name Adhesives
 14.3 Transport hazard class(es) 3
 14.4 Packing Group III
 Description UN1133, Adhesives, 3, III
 14.5 Environmental hazards Not applicable
 14.6 Special Provisions A3
 Limited Quantity (LQ) 10 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)

EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59

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

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.

EU-REACH (1907/2006) - Annex XIV - List of substances subject to Authorization

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

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

Persistent Organic Pollutants
 Not applicable

15.2. Chemical safety assessment

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
 H361d - Suspected of damaging the unborn child
 H336 - May cause drowsiness or dizziness
 H373 - May cause damage to organs through prolonged or repeated exposure
 H304 - May be fatal if swallowed and enters airways
 H225 - Highly flammable liquid and vapour
 H319 - Causes serious eye irritation
 EUH066 - Repeated exposure may cause skin dryness or cracking

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend SECTION 8: Exposure controls/personal protection

| | | | |
|------------|--|------|----------------------------------|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | * | Skin designation |
| PBT | Persistent, Bioaccumulative, and Toxic (PBT) 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

Classification and labeling data calculated from data received from raw material suppliers

Prepared By Product Safety & Regulatory Affairs

Revision Date 29-Aug-2018

Indication of changes

Revision Note SDS sections updated: 8, 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.

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End of Safety Data Sheet