



NON-PRESSURE PIPE CEMENT

SOLVENT BASED ADHESIVE

KEY FEATURES

- Bonds PVC & ABS
- Kite marked
- CE marked

DESCRIPTION

Bostik Non-Pressure Pipe Cement is a thixotropic solvent cement conforming to BSI specification BS EN 14680 for non- pressure pipe. The product is independently tested to the standard by BSI and carries both Kitemark and CE marking. The product is also approved by the Water Regulatory Advisory Service Scheme to BS EN 6920-1 for use with potable water. Its thixotropic properties allow a high coating weight to be applied, thus providing good adhesion and sealing action even where there are gaps (up to 0.8mm) between the surfaces to be bonded.

RECOMMENDED USE

Bostik Non-Pressure Pipe Cement was designed for the spigot & socket bonding of non-pressure thermoplastic pipe systems such as PVC-u, PVC-c and ABS.

IMPORTANT

Before embarking on any work involving **Bostik Non-Pressure Pipe Cement** the safety data sheet should be carefully studied by those carrying out the work.

TYPICAL CHARACTERISTICS

| | |
|--------------------|-----------------------------------|
| Physical form | Thixotropic paste |
| Colour | Natural |
| Chemical type | PVC polymer |
| Solvent | Ketone / Speciality solvent blend |
| Solids content [%] | Approx. 21 |
| Specific gravity | Approx. 0.9 |
| Flammability | Highly flammable |

METHOD OF USE

SURFACE PREPARATION

- Cut the pipe clean and square.
- Remove any burrs and file a lead chamfer of approx. 3mm at 15°.
- Roughen the mating surfaces with a medium grade emery cloth.
- Clean the abraded surfaces using **Bostik Cleaner 1**.

APPLICATION & BONDING

- **Bostik Non-Pressure Pipe Cement** must not be stirred, decanted or diluted.
- Using a clean, flat brush apply an even layer of cement to both surfaces.
- Replace lid immediately after use.

BONDING

- Immediately push the spigot into the socket without twisting.
- Hold the joint in position for 20 to 30 seconds and wipe off excess cement.
- Joints should not be disturbed for 10 minutes, after which they may be handled with care.
- Allow 24 hours for full cure at normal ambient conditions and 20 days before using with potable water.

BSI STANDARDS



Conforms to **BS EN 14680:2006** see attached DOP.

WRAS approved to **BS EN 6920-1** for use with potable water.

PACKAGING

For current pack sizes please contact the Customer Service Department.

STORAGE

Store in a dry flameproof area between 5 and 25°C.

SHELF LIFE

12 months from the date of manufacture shown on the container, stored closed in original packaging under the above conditions.

CONSTRUCTION PRODUCT REGULATION DECLARATION OF PERFORMANCE

No: TDS 01729-06

| | |
|-------------------------------|---|
| Product Description : | Bostik Non-Pressure Solvented Pipe Cement |
| Product Codes : | 5000403113342 5000403113197 |
| Intended Use : | For use in the spigot & socket bonding of non-pressure thermoplastic pipe systems in PVC-u, PVC-c and ABS |
| Manufacturer : | Bostik Ltd |
| Contact Address : | Ulverscroft Road Leicester LE4 6BW |
| System of Assessment : | System 4 |
| Harmonised Standard : | BS EN 14680:2006 |

BSI 0086 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control under system 4 and issued the certificate of conformity of the factory production control.

| DECLARED PERFORMANCE | | |
|---|---|------------------------------------|
| ESSENTIAL CHARACTERISTICS | PERFORMANCE | HARMONISED TECHNICAL SPECIFICATION |
| Resistance to pull-out (Shear strength) | ≥ 3.0 MPa (N/mm ²) at 480h | EN 14680:2006 Clause 4.2 |
| Tightness of bonded joints (Durability) | No leakage | EN 14680:2006 Clause 4.3 |
| High temperature resistance of bonded joints (Durability) | No leakage | EN 14680:2006 Clause 4.3 |

The performance of the product Bostik Non-Pressure Pipe Cement 5000403113342, 5000403113197 is in conformity with the declared performance shown in the table above.

This declaration of performance is issued under the sole responsibility of Bostik Ltd.

Signed for and on behalf of Bostik Ltd by:

Name: Alison Jamieson

Function: S.H.E.Q. Manager

Signature:



Date: March 2014

Disclaimer - please read carefully

This disclaimer is issued by Bostik Limited ("the Company") and applies to the use of any products supplied by the Company ("the Products") displayed on this Technical Data Sheet ("TDS"). Please read this disclaimer carefully before using any of the Products. Using this TDS and/or the Product constitutes your acceptance of this disclaimer. Its contents shall prevail over any directions of use and any disclaimer and/or exclusion or limitation of liability of the Company which may appear on the packaging of the Products.

This disclaimer sets out the entire financial liability of the Company (including any liability for the acts or omissions of its employees, agents and sub-contractors) to any user of the Products ("Product User") in respect of any use made or resale by the Product User, of any of the Products in this TDS.

This disclaimer does not affect the Company's liability for death or personal injury arising from the Company's negligence in respect of the Products, or its liability for fraud, or fraudulent misrepresentation, or any other liability which cannot be excluded or limited under applicable law.

The Company's total liability however arising and whether caused by tort (including negligence and breach of statutory duty), breach of contract or otherwise, arising in connection with the use made or resale by the Product User of any of the Products in this TDS shall be limited to the price paid for the Product by the Product User.

The Company shall not be liable to the Product User for any pure economic loss, loss of profit, loss of business, depletion of goodwill or otherwise, in

each case whether direct, indirect or consequential, or any claims (including in respect of personal injury insofar as not caused by the Company's negligence) for consequential compensation whatsoever (howsoever caused) which arise out of or in connection with the use made or resale by the Product User of any of the Products in this TDS.

The Company shall not be liable to the Product User in relation to any loss for any use which is inappropriate or use which is otherwise than in accordance with the relevant instructions for use of the Products in this TDS or on the Product. Product Users are advised to confirm the suitability of the Products by their own tests.

This TDS covers just one of a large range of products supplied by the Company. Full information on these products and advice on application is freely available from our fully trained staff throughout the country. In addition, specialist technical advice is available from our Technical Services Department. This TDS supersedes all previous TDSs relating to the Products and users of it must ensure that it is the current issue. Destroy all previous TDS, and if in any doubt, contact the Company, quoting the code number on the bottom left hand side of this page.

SMART HELP

Please contact your local representative



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

1.1. Product Identifier

Product Name BOSTIK NON PRESS. PIPE CEMENT
Pure substance/mixture Mixture

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

Recommended use Adhesives and/or sealants.
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

| | |
|-----------------------|---|
| 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]

| | |
|---|---------------------|
| Serious eye damage/eye irritation | Category 1 - (H318) |
| Specific target organ toxicity (single exposure) | Category 3 - (H336) |
| Flammable liquids | Category 2 - (H225) |

2.2. Label Elements

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

Contains Cyclohexanone, Methyl ethyl ketone



Signal word
DANGER

Hazard statements

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H336 - May cause drowsiness or dizziness
H318 - Causes serious eye damage
H225 - Highly flammable liquid and vapour

EU Specific Hazard Statements

EUH066 - Repeated exposure may cause skin dryness or cracking
EUH205 - Contains epoxy constituents. May produce an allergic reaction
EUH208 - Contains Bisphenol-A-Epichlorhydrin Epoxy resin (number average molecular weight ≤ 700). May produce an allergic reaction

Precautionary statements

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P260 - Do not breathe fumes
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 | 40 - <80 | Eye Irrit. 2 (H319) (EUH066) STOT SE 3 (H336) Flam. Liq. 2 (H225) | | 01-2119457290-43 -XXXX |
| Cyclohexanone | 203-631-1 | 108-94-1 | 5 - <10 | Acute Tox. 4 (H332) Flam. Liq. 3 (H226) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) | | 01-2119453616-35 -XXXX |
| Bisphenol-A-Epichlorhydrin Epoxy resin ≤ 700 MW | 500-033-5 | 25068-38-6 | 0.1 - <1 | Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411) | Eye Irrit. 2 :: C \geq 5% Skin Irrit. 2 :: C \geq 5% | 01-2119456619-26 -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 | 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. Call a doctor immediately. |
| 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 Causes serious eye damage. Drowsiness. Dizziness.

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

Do not use a solid water stream as it may scatter and spread fire

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. Use personal protection recommended in Section 8.

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 Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dyke to collect large liquid spills. Soak up with inert absorbent material. Use clean non-sparking tools to collect absorbed material.

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. Use personal protection recommended in Section 8.

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 and/or sealants.

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 Sk* | TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 899 mg/m ³ Sk* |
| Cyclohexanone 108-94-1 | TWA: 10 ppm TWA: 40.8 mg/m ³ STEL: 20 ppm STEL: 81.6 mg/m ³ * | TWA: 10 ppm TWA: 40.8 mg/m ³ STEL: 20 ppm STEL: 81.6 mg/m ³ Sk* | TWA: 10 ppm TWA: 41 mg/m ³ STEL: 20 ppm STEL: 82 mg/m ³ Sk* |

| Chemical Name | European Union | Ireland | United Kingdom |
|---------------------|----------------|---------|----------------|
| Methyl ethyl ketone | - | - | 70 |

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| | | | |
|---------------------------|---|---|---|
| 78-93-3 | | | |
| Cyclohexanone 108-94-1 | - | - | 2 |

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.
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 Thixotropic
Colour No information available
Odour Characteristic
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 | 79 °C / 174.2 °F | |
| Flash Point | -9 °C / 15.8 °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 | No information available | |
| 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 | No information available | |
| Dynamic Viscosity | No information available | |

9.2. Other information

Softening Point No information available

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| | |
|--|--------------------------|
| Molecular Weight | No information available |
| Solvent content (%) | No information available |
| Solid content (%) | No information available |
| Density | 0.90 g/cm ³ |
| 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

None under normal use conditions.

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 | Corrosive to the eyes and may cause severe damage including blindness. |
| Skin contact | No data available. |
| 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.

Serious eye damage/eye irritation Not applicable.

Sensitisation Not applicable.

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| | |
|---------------------------------|--|
| Germ Cell Mutagenicity | Not applicable. |
| Carcinogenicity | Not applicable. |
| Reproductive Toxicity | No information available. |
| STOT - single exposure | Based on available data, the classification criteria are not met. |
| STOT - repeated exposure | Based on available data, the classification criteria are not met. |
| 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

| | |
|--------------------------------------|-----------------|
| ATEmix (oral) | 23,594.00 mg/kg |
| ATEmix (dermal) | 16,907.00 mg/kg |
| ATEmix (inhalation-dust/mist) | 23.10 mg/l |
| ATEmix (inhalation-vapour) | 169.00 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 |
| Cyclohexanone 108-94-1 | = 1535 mg/kg (Rat) | = 947 mg/kg (Rabbit) | = 8000 ppm (Rat) 4 h |
| Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW 25068-38-6 | LD50 (rat) > 2000 mg/kg OECD 420 | >2000 mg/Kg (rat) | - |

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: 3130 - 3320mg/L (96h, Pimephales promelas) | EC50 48 h > 308 mg/L (Daphnia magna) | |
| Cyclohexanone 108-94-1 | EC50: =20mg/L (96h, Chlorella vulgaris) | LC50 96 h 481 - 578 mg/L (Pimephales promelas flow-through) | EC50: =800mg/L (24h, Daphnia magna) | |
| Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW 25068-38-6 | EC50 (72h) = 9.4 mg/L (Scenedesmus capricornutum) EPA-660/3-75-009 | 1.2 mg/l 96Hr (Oncorhynchus mykiss) | 2.7 mg/l 48hr Daphia Magna | |

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

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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.

| Chemical Name | PBT and vPvB assessment |
|--|---|
| Methyl ethyl ketone 78-93-3 | The substance is not PBT / vPvB |
| Cyclohexanone 108-94-1 | The substance is not PBT / vPvB PBT assessment does not apply |
| Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW 25068-38-6 | The substance is not PBT / vPvB |

12.6. Other adverse effects

No information available

Endocrine Disruptor Information

| Chemical Name | EU - Endocrine Disruptors Candidate List | EU - Endocrine Disruptors - Evaluated Substances |
|--|--|--|
| Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW 25068-38-6 | Group III Chemical | |

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

| | |
|--|---|
| Waste from Residues/Unused Products | Dispose of wastes in an approved waste disposal facility. |
| 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, (D/E) |
| 14.5 Environmental hazards | Not applicable |
| 14.6 Special Provisions | None |
| Classification Code | F1 |
| Tunnel restriction code | (D/E) |
| Limited Quantity (LQ) | 5 L |
| ADR Hazard Id (Kemmler) | 30 |

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Number)

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, (-9°C c.c.) |
| 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 does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

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

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

H332 - Harmful if inhaled
H226 - Flammable liquid and vapour
H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H315 - Causes skin irritation
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H317 - May cause an allergic skin reaction
H411 - Toxic to aquatic life with long lasting effects
H336 - May cause drowsiness or dizziness
H225 - Highly flammable liquid and vapour
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 28-Sep-2018

Indication of changes

Revision Note Not applicable.

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

Safety Data Sheet

BOSTIK NON PRESS. PIPE CEMENT
Supercedes Date: 29-Sep-2017

Revision Date 28-Sep-2018
Revision Number 1.02

Disclaimer

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End of Safety Data Sheet