SAFETY DATA SHEET

1. IDENTIFICATION

1.1. Product identifier
Product name: Bostik Shoe Repair Adhesive
Chemical family: Polyurethane adhesive

1.2. Intended use of the product
A flexible leather and rubber adhesive designed for DIY shoe repairs

1.3. Name, address, and telephone of the responsible party
Company: Permoseal (PTY) Ltd
Address: 1 Beverley Close, Montague Gardens, 7441, Cape Town, South Africa
Phone: +27-21-555-7400
Toll-free No.: 0800-222-400
Website: www.bostik.co.za

1.4. Emergency phone number
+27-21-555-7400

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
GHS Classification: This product is hazardous

2.2. Label elements
GHS Labelling:
- This product is classified and labelled according to the CLP regulation.
- Hazard pictogram:
  - GHS02
  - GHS08
  - GHS07

2.3. Signal word
Danger

2.4. Hazard determining components of labelling:
Methyl Ethyl Ketone, Acetone, Toluene, Tetrahydrofuran

2.5. Hazard statements:
H225: Highly flammable liquid and vapour
H302: Harmful if swallowed
H304: May be fatal if swallowed and enter airways
H315: Causes skin irritation
H319: Causes serious eye irritation
H335: May cause respiratory irritation
H373: May cause damage to organs through prolonged or repeated exposure
H361d: Suspected of damaging unborn child
H336: May cause drowsiness or dizziness
2.6. Precautionary statements:

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves / eye protection.
P273 Avoid release to the environment.
P201 Obtain special instructions before use.
P308+P313 If exposed or concerned: get medical advice/attention.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

2.7. Other Hazards

Frequent or prolonged contact may cause skin irritation

a. Unknown acute toxicity

No data available

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixture. This product is hazardous.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No.</th>
<th>Contents (%)</th>
<th>Classification of Substance</th>
</tr>
</thead>
</table>
| Methyl Ethyl Ketone    | 78-93-3  | 15 - 30      | Flam liq.: Cat 2
|                        |          |              | Eye Irritation: Cat 2
|                        |          |              | STOT SE: Cat 3 |
| Acetone                | 67-64-01 | 40 - 55      | Flam liq.: Cat 2
|                        |          |              | Eye Irritation: Cat 2
|                        |          |              | STOT SE: Cat 3 |
| Toluene                | 108-88-3 | 15 - 30      | Asp. Tox.: Cat 1
|                        |          |              | Flam liq.: Cat 2
|                        |          |              | Reprod.: Cat 2
|                        |          |              | STOT RE: Cat 2
|                        |          |              | Skin Irrit.: Cat 2
|                        |          |              | STOT SE: Cat 3 |
| Tetrahydrofuran        | 109-99-9 | 8 - 20       | Flam liq.: Cat 2
|                        |          |              | Eye irritation: Cat 2
|                        |          |              | Carc.: Cat 2
|                        |          |              | STOT SE: Cat 3 |

4. FIRST- AID MEASURES

4.1. Description of first aid measures

General
Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

Inhalation
Move to fresh air and seek medical attention if nausea and dizziness persists. Aspiration into lungs may lead to pneumonitis.

Skin contact
Wash skin with mild soap and water. Remove contaminated clothes and shoes. Seek medical attention.

Eye contact
Remove any contact lenses from the eyes before rinsing thoroughly with plenty of water (lift eye lids). Rinse for at least 15 minutes. Seek medical attention if any discomfort continues.

Ingestion
Rinse mouth. Do not induce vomiting. Get the affected person to drink a lot of water in small gulps. Obtain medical attention.
4.2. Most important symptoms and effects both acute and delayed

**General**
May cause irritation.

**Inhalation**
May cause irritation to the respiratory system. Prolonged inhalation may cause headaches, drowsiness and fatigue. High concentrations of vapours are anaesthetic in nature causing central nervous system effects such as dizziness and confusion.

**Skin contact**
May cause skin irritation – Prolonged contact can cause defatting and drying of the skin which may result in a burning sensation and a dried, cracked appearance. Repeated exposure may lead to dermatitis.

**Eye contact**
Irritant to eyes – may cause redness, tearing and blurred vision.

**Ingestion**
Hazardous – may be fatal if swallowed.

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

Note to physicians: Treat symptomatically

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

<table>
<thead>
<tr>
<th>Suitable extinguishing media</th>
<th>Water spray, dry chemical powder, foam, carbon dioxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unsuitable ext.med. media</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

5.2. Special hazards arising from the substance or mixture

<table>
<thead>
<tr>
<th>Fire hazard</th>
<th>Highly flammable liquid and vapour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explosion hazard</td>
<td>Product is explosive</td>
</tr>
</tbody>
</table>

5.3. Advice for firefighters

<table>
<thead>
<tr>
<th>Firefighting instructions</th>
<th>Exercise caution when fighting any chemical fire.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protection during firefighting</td>
<td>Firefighters should wear full protective gear. Do not enter fire area without proper protective equipment, including respiratory protection.</td>
</tr>
<tr>
<td>Hazardous combustion products</td>
<td>Under certain conditions of combustion, traces of toxic substances cannot be excluded.</td>
</tr>
</tbody>
</table>

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

<table>
<thead>
<tr>
<th>General measures</th>
<th>Do not get in eyes or skin, or on clothing.</th>
</tr>
</thead>
</table>

6.2. For non-emergency personnel

<table>
<thead>
<tr>
<th>Protective equipment</th>
<th>Use appropriate personal protection equipment (PPE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency procedures</td>
<td>Evacuate unnecessary personnel.</td>
</tr>
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</table>

6.3. For emergency personnel

<table>
<thead>
<tr>
<th>Protective equipment</th>
<th>Use appropriate personal protection equipment (PPE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency procedures</td>
<td>Secure the area and evacuate unnecessary personnel.</td>
</tr>
</tbody>
</table>

6.4. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.5. Methods and materials for containment and cleaning up

For containment
Absorb and or contain spill with inert material.

Methods for cleaning up
If recovery is not feasible, absorb with inert material. Place in a container suitable for disposal.
Dispose of in accordance with current local legislation.

6.6. Reference to other sections

Refer to Section 8, Exposure controls and personal protection
7. HANDLING AND STORAGE

7.1. Precautions for safe handling
Handling temperature  Normal ambient temperature
Hygiene measures  Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating or drinking.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions  Store in a dry, cool and well-ventilated place away from heat, sparks, open flames and any other ignition sources. Keep container closed when not in use. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded.
Incompatible materials  Strong oxidizing agents, acids, ammonia, amines, isocyanates and caustic.
Maximum storage period  12 months, but may vary depending on storage conditions.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1. Control parameters
Exposure limits:

<table>
<thead>
<tr>
<th>Name</th>
<th>TWA – 8hrs</th>
<th>STEL – 15mins</th>
</tr>
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<tbody>
<tr>
<td>Methyl Ethyl Ketone</td>
<td>150 ppm</td>
<td>300 ppm</td>
</tr>
<tr>
<td>Acetone</td>
<td>500 ppm</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Toluene</td>
<td>50 ppm</td>
<td>150 ppm</td>
</tr>
<tr>
<td>Tetrahydrofuran</td>
<td>100 ppm</td>
<td>100 ppm</td>
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</table>

8.2. Exposure controls
Engineering controls  Provide good ventilation when handling large quantities. No special measures are required if stored and handled as above. Ventilation must be explosive proof.
Personal protective equipment  Use appropriate personal protection equipment (PPE).
Eye protection  Safety glasses.
Skin and body protection  Use protective gloves and aprons to prevent contact.
Respiratory protection  Not required under normal conditions of use in a well-ventilated space. Use NIOSH approved respirator if there is potential to exceed exposure limits.
Other information  When using, do not eat or drink.

9. PHYSICAL AND CHEMICAL PROPERTIES
Appearance  Clear viscous liquid
Odour  Mildly pungent
Density (g/cm³ @20°C)  Approximately 0.9
Flash point (°C)  Approximately -9
Boiling point (°C)  56
Flammability limits (%)  1.3 – 12.0
Solubility water  Insoluble
Solubility solvent  Soluble in esters, ketones and methanol

10. STABILITY AND REACTIVITY
Reactivity  None expected under normal conditions of use.
Chemical stability  Stable under normal conditions.
Possibility of hazardous reactions  Not expected under normal conditions
Conditions to avoid  Open flames, sparks or other possible ignition sources
Incompatible materials  Strong oxidizing agents, strong acids and strong bases
Hazardous decomposition products  Thermal decomposition may release carbon dioxide, carbon monoxide, smoke and fumes
11. TOXICOLOGICAL INFORMATION

The toxicological properties of this product have not been fully investigated.

Toxicological Effects based on ingredients:
Irritation of nose and throat may occur. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation may occur. Symptoms may include stinging, tearing, redness, swelling and blurred vision. May cause respiratory irritation. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

12. ECOLOGICAL INFORMATION

This product has not been tested for environmental effects. Based on its components, this product is unlikely to result in any detrimental ecological effects. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Further ecological information
The polyurethane polymer contained in this product is not readily biodegradable. The solvents are readily biodegradable. Bioaccumulation is not expected to occur. Mobility in soil – polymer component is insoluble in water.

13. DISPOSABLE CONSIDERATIONS

Sewage disposal recommendations  Do not dispose waste into sewer.
Waste disposal recommendations  Whatever cannot be saved for recovery or recycling should be disposed of in accordance with current local legislation

14. TRANSPORT INFORMATION

14.1 UN Number
- ADR, ADN, IMDG, IATA  UN 1133
14.2 UN Proper Shipping Name
- ADR/AND, IMDG, IATA  Flammable liquid, N.O.S.
14.3 Transport hazard class
- ADR, ADN, IMDG, IATA LABEL

- CLASS 3  Flammable liquids
14.4 Packing group
- ADR, ADN, IMDG, IATA  II
14.5 Environmental hazards
- None

15. REGULATORY INFORMATION

15.1 Labelling  Classified as a hazardous product
15.2 National legislation  None
16. OTHER INFORMATION

16.1 Information sources
This SDS is prepared based on the information received from the suppliers.

16.2 Full text of H-phrases referred to under Section 3

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16.3 Additional information
This document has been prepared in accordance with the SDS requirements of SANS 11014:2010.

For intended use and applications see the Technical Date Sheet for the product. The information provided in this Safety Data Sheet is based on the present state of our knowledge. This data is intended to enable safety assessments to be made and should not be construed as guaranteeing specific properties. Recipients of our product must take responsibility for observing existing laws and regulations.

Revision date     November 2016