Bostik PVC Weld

SAFETY DATA SHEET

1. IDENTIFICATI ON

1.1. Product identifier

Product name	Bostik PVC Weld
Chemical family	Vinyl chloride adhesive

1.2. Intended use of the product

Ideal for joining PVC pipes

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 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, Tetrahydrofuran, n-Methyl-2-Pyrrolidone, Dimethylformamide

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
H371	May cause damage to organs
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 mat defat and dry the skin, leading to discomfort and dermatitis.

a. Unknown acute toxicity

No data available

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixture. This product is hazardous.

Ingredient	CAS No.	Contents (%)	Classification of Substance
Methyl Ethyl Ketone	78-93-3	30 - 45	Flam liq.: Cat 2 Eye Irritation: 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
n-Methyl Pyrrolidone	872-50-4	10 - 15	Reprod: Cat 1B Skin irritation: Cat 2 Eye irritation: Cat 2 STOT SE: Cat 3
N,N-dimethylformamide	68-12-2	10 - 15	Reprod: Cat 1B Eye irritation: Cat 2 Acute Tox: Cat 4

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	Irritant on skin – 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

Suitable extinguishing media	Water spray, dry chemical powder, foam, carbon dioxide
Unsuitable ext.media	Do not use a water spray

5.2. Special hazards arising from the substance or mixture

Fire hazard	Highly flammable liquid and vapour
Explosion hazard	Product is explosive.

5.3. Advice for firefighters

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

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Do not get in eyes or skin, or on clothing.

6.2. For non-emergency personnel

Protective equipment	Use appropriate personal protection equipment (PPE)
Emergency procedures	Evacuate unnecessary personnel.

6.3. For emergency personnel

Protective equipment	Use appropriate personal protection equipment (PPE)
Emergency procedures	Secure the area and evacuate unnecessary personnel.

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:

Name	TWA	STEL
Methyl Ethyl Ketone	150 ppm	300 ppm
Tetrahydrofuran	100 ppm	100 ppm
n-Methyl Pyrrolidone	10 ppm	20 ppm
N,N-dimethylformamide	10 ppm	20 ppm

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	Aromatic
Density (g/cm^3 @20°C)	Approximately 0.94
Flash point (°C)	Approximately <5
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.

11.1 Acute toxicity: May be fatal if swallowed and enters airways - narcotic effects. May cause respiratory irritation.

Components	Route of Exposure	Species/Test System	Result/Effect
Methyl Ethyl Ketone	Oral	Rat	LD_{50}: 2737 mg/kg
Tetrahydrofuran	Oral	Rat	LDL_0: 3000 mg/kg
n-Methyl Pyrrolidone	Oral Dermal	Rat	LD_{50}: 4150 mg/kg LD_{50}: 5000 mg/kg
N,N-dimethylformamide	Oral Dermal	Rabbit	LD_{50}: 3040 mg/kg LD_{50}: 3160 mg/kg

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 polyvinyl chloride 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.

Components	Species/ test system	Result/Effect
Methyl Ethyl Ketone	Fish Toxicity Daphnia Toxicity	96hr LC_{50} (Leuciscus idus): 4600 – 4880 mg/l 48hr EC_{50} (Daphnia magna): >520 mg/l
Tetrahydrofuran	Fish Toxicity Daphnia Toxicity	96hr LC_{50} (P. promelas): 2160 mg/l 24hr EC_{50} (Daphnia magna): 382 mg/l
n-Methyl Pyrrolidone	Fish Toxicity Daphnia Toxicity	96hr LC_{50} : >500 mg/l 48hr EC_{50} : >1000 mg/l
N,N-dimethylformamide	Fish Toxicity Daphnia Toxicity	96hr LC_{50} (Lepomis macrochirus): 6300 mg/l 48hr EC_{50} (Daphnia magna): >100 mg/l

13. DISPOSIBLE 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

- **Marine pollutant (IMDG), Special marking (ADR/AND), Special marking (IATA)**

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

H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
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H335	May cause respiratory irritation
H371	May cause damage to organs
H336	May cause drowsiness or dizziness

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.

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