

BJ SUPER SA

Modified Bitumen

Composition / Information:

BJ Super SA is a mixture of bitumen and polymer (SBS).

Hazardous Identification:

Human Health Hazards:

- Molten product adheres to the skin and causes burns.
- With prolonged exposure to the product fumes above the recommended occupation exposure standard may cause irritation to the skin, eyes and upper respiratory tract.

Safety Hazards:

- Not classified as flammable but will burn.
- Release of flammable vapours is possible on hot storage.
- Contact of hot product with water leads to violent expansion and high potential for "boil-over".

First Aid Measures:

After Inhalation:

- In case of adverse exposure, the affected victim should immediately be removed to fresh air.
- If breathing has stopped, apply artificial respiration and seek medical attention.

After Skin Contact:

- Hot Molten Material: The affected area should immediately be immersed in or flushed with large amounts of cold water to dissipate the heat. No attempt should be made to remove the material from the skin. The product, once cooled, provides a sterile dressing and detaches naturally after a few days. Prompt medical advice should be sought.
- In case of circumferential burn with BJ Super SA, the adhering material should be split to prevent a tourniquet effect as it cools.
- Solvent such as gasoline, kerosene, gas, oil or diesel fuel, are skin irritants and should never be used to remove bitumen.

- Contaminated clothing must be removed as soon as possible and be re-laundered before re-use.

After Eye Contact:

- Rinse eye/s immediately with large amounts of cold water for at least 10 minutes and seek prompt medical service.

Ingestion:

- Vomiting should not be induced.
- Give water to drink, provided the patient is conscious.
- Protect the airway if vomiting begins.
- If rapid recovery does not occur, obtain medical attention.

Burns:

- Immediately cool with water. Keep cooling. Immerse the burnt area in a bucket with water or pour over the burnt area constantly. Cold running water gives the best pain relief. Remove clothing, shoes or gloves if not stuck to the burnt area. Keep cooling with water also while transporting or during waiting time. (If necessary bring a bucket of water). Keep cooling until the pain stops, it may last for hours. Do not remove the BJ Super SA (modified bitumen) from the burnt area.

Instructions for the Casualty Ward:

- Do not remove the BJ Super SA (modified bitumen) if it sticks to the burnt area. It does not hamper the healing of the wound. Continue the cooling with water until the pain stops. Wash with cold water and soap. It is not recommended to use steroid-spray on BJ Super SA (modified bitumen) burns.

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Fire Fighting Measures:

The product is combustible. Avoid the heavy inhaling of smoke. Extinguish fire with foam, carbon dioxide, powder, sand or earth.

Never use water as it may result in an explosive boil-over.

Protective Equipment:

- Proper protective equipment, including self-contained breathing apparatus and eye protection, must be worn when dealing with fires, especially fires in confined spaces.

Accidental Release Measures:

- Allow to cool and solidify.
- Remove spillage and handle it as chemical waste. (Refer to Disposal Considerations).

Handling & Storage:

Handling:

- Avoid breathing bitumen fumes.
- Avoid contact with skin.
- The hot product must be kept away from water and other liquids.
- Handling temperature: 180 - 190 °C.

Storage:

- No special precautions when stored cold.
- BJ Super SA can be stored at 150 - 170 °C stirring constantly for a limited period of time. BJ Super SA, which has been kept for more than 24 hours at 190 °C, must be discarded.

Exposure Control / Personal Protection:

Components: BJ Super SA

Threshold limit Values (1996):

5mg/m³ for BJ SA (bitumen) fumes.

Personal Protection:

Respiratory Protection:

- Not normally required in well ventilated areas.
- In the event of an inhalation risk from vapour or fumes, a respirator fitted with an organic vapour cartridge combined with a particulate pre-filter should be worn.

Hand Protection:

- Heat resistant gloves to be worn.

Eye Protection:

- Mono-goggles or full-face shield.

Body Protection:

- Safety shoes or boots.
- Long pants.

Fire extinguishing equipment should be available at the workplace.

Product Properties:

Appearance (25 °C)	_____	Solid
Solubility in water	_____	Insoluble
Colour	_____	Black
Odour	_____	*None/Asphaltic
Density	_____	±1 kg/litre
Flash point	_____	260 °C
Softening point	_____	Varies per grade

- A) 3&4 SBS Modified at 52-67 °C
- B) 7,5% SBS Modified at 115 - 125 °C

*Temperature dependent.

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Stability & Reactivity:

Stability:

- The product is stable.

Heating above the flash point produces flammable vapours, which may form explosive mixtures with air.

Reactivity:

- Avoid contact with strong oxidizing agents.

Hazardous decomposition products:

- Hazardous smoke may occur if the maximum temperature of 190 °C is exceeded.

Toxicological Information:

Inhalation:

- Too high a temperature causes smoke and fume, which, under poor conditions of ventilation, is irritant to the respiratory organs. The product heated beyond the maximum temperature emits fumes, which after long time inhalation, may cause bronchitis.

Skin:

- Risk of burns.

Eyes:

- Fumes can cause irritation of the eyes.

Ingestion:

- Under normal conditions not relevant.

Ecological Information:

Mobility:

- Sinks in water. Cools rapidly and is not mobile.

De-gradibility:

- Not biodegradable.

Ecotoxicity:

- Is not regarded as hazardous to the environment.

Disposal Considerations:

Precautions:

- See section "Exposure Controls / Personal Protection Measures."

Waste Disposal:

- Allow to cool and solidify before disposal takes place.
- Waste arising from spillage or tank cleaning operations should be disposed of in accordance with prevailing regulations, preferably by a recognized collector or contractor.

Transport Information:

Unheated no classifications.
UN-Number 1999

Regulation Information:

Labeling	
Contains	
Risk Phrases	
Safety Phrases	
National labeling	UN Number 1999
Restriction on use	The product must not be used warmer than 200 °C
Special training	Employees must be informed of the contents of this data sheet. The data sheet must be present at the workplace.

Other Information:

Use:

- Modified BJ Super SA (bitumen) is used as a binder in Asphalt, for resealing of roads, or as a crack-sealant on roads.
- The product must not be used in applications other than the above without first seeking advice of the supplier.