



Material Safety Data Sheet (MSDS)

Oxidized Bitumen 85/40

Section 1: Product Identification

Product Name: Oxidized Bitumen 85/40

Other Names: Blown Asphalt 85/40, Air Blown Bitumen 85/40, Oxidized Asphalt 85/40

Product Use: Waterproofing, roofing membranes, pipe coating, adhesives, mastics, insulation, corrosion protection, industrial flooring, expansion joints.

Section 2: Hazard Identification

GHS Classification

- Not classified as hazardous in solid form.
- Heated material may cause severe thermal burns.
- Hot vapors may irritate the eyes and respiratory system.

Signal Word

Warning

Hazard Statements

- Heated product may cause serious skin burns.
- Vapors generated during heating may cause respiratory irritation.
- Contact with molten material may result in severe injury.

Precautionary Statements

- Avoid breathing fumes generated during heating.
- Wear appropriate protective equipment.
- Keep away from open flames and excessive heat.
- Wash hands thoroughly after handling.

Section 3: Composition / Information on Ingredients

Component	CAS Number	Concentration
Oxidized Petroleum Bitumen	64742-93-4	>99%

Impurities: None known that contribute to hazards.

Section 4: First Aid Measures

Eye Contact

- Cold product: Flush with clean water if irritation occurs.
- Hot product: Immediately flush with plenty of water without attempting to remove adhered material. Seek immediate medical attention.

Skin Contact

- Cold product: Wash with soap and water.
- Hot product: Cool immediately with cold water. Do not remove solidified bitumen from the skin. Obtain urgent medical attention.

Inhalation



Move the affected person to fresh air. Seek medical advice if symptoms persist.

Ingestion

Not expected during normal industrial use. Do not induce vomiting. Rinse mouth and seek medical attention.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media

- Dry chemical powder
- Carbon dioxide (CO₂)
- Foam
- Dry sand

Unsuitable Extinguishing Media

- Direct water jet on molten product

Hazardous Combustion Products

- Carbon monoxide (CO)
- Carbon dioxide (CO₂)
- Sulfur oxides
- Smoke and hydrocarbon fumes

Fire Fighting Equipment

Wear self-contained breathing apparatus (SCBA) and full protective clothing.

Section 6: Accidental Release Measures

Solid Material

- Collect mechanically.
- Dispose of according to local regulations.

Molten Material

- Allow material to cool and solidify.
- Remove mechanically after solidification.
- Prevent entry into drains and waterways.

Section 7: Handling and Storage

Handling

- Avoid contact with molten product.
- Prevent overheating.
- Ensure adequate ventilation during heating.
- Use suitable heat-resistant equipment.

Storage

- Store in a cool, dry, well-ventilated area.
- Protect from direct sunlight.
- Keep away from oxidizing agents and ignition sources.
- Store in original sealed packaging.

Section 8: Exposure Controls / Personal Protection

**Engineering Controls**

- Local exhaust ventilation where fumes may be generated.

Personal Protective Equipment**Eye Protection**

- Safety goggles or face shield.

Hand Protection

- Heat-resistant gloves.

Skin Protection

- Long-sleeved protective clothing.
- Safety boots.

Respiratory Protection

- Respirator if ventilation is inadequate or fumes exceed occupational exposure limits.

Section 9: Physical and Chemical Properties

Property	Value
Appearance	Black solid
Odor	Slight petroleum odor
Physical State	Solid
Softening Point	Approximately 85°C
Penetration	Approximately 40 dmm
Flash Point	>250°C
Density (25°C)	1.01–1.06 g/cm ³
Solubility in Water	Insoluble
Auto-Ignition Temperature	>300°C

Section 10: Stability and Reactivity**Stability**

Stable under recommended storage conditions.

Conditions to Avoid

- Excessive heat
- Open flames
- Strong oxidizing agents

Hazardous Decomposition Products

- Carbon monoxide
- Carbon dioxide
- Sulfur oxides
- Hydrocarbon fumes

Section 11: Toxicological Information**Acute Toxicity**

No significant toxicity under normal conditions of use.

**Skin Contact**

Molten material causes severe thermal burns.

Eye Contact

Hot material may cause serious eye injury.

Inhalation

Heating fumes may cause irritation of the respiratory tract.

Carcinogenicity

Oxidized Bitumen 85/40 is not considered hazardous in solid form. Prolonged occupational exposure to bitumen fumes generated at high temperatures should be minimized.

Section 12: Ecological Information

- Insoluble in water.
- Not readily biodegradable.
- Avoid release into soil, drains, and natural waterways.
- Expected to have low mobility after solidification.

Section 13: Disposal Considerations

Dispose of unused product and contaminated packaging in accordance with local, national, and international environmental regulations. Recycling is recommended where facilities are available.

Section 14: Transport Information

Item	Description
UN Number	Not regulated (solid product)
Proper Shipping Name	Oxidized Bitumen 85/40
Hazard Class	Not classified as dangerous goods when transported as a solid
Packing Group	Not applicable

Note: Molten material transported at elevated temperatures may be subject to local transport regulations.

Section 15: Regulatory Information

The product should be handled in accordance with applicable national and international chemical safety, occupational health, and environmental regulations.

Section 16: Other Information**Recommended Applications**

- Roofing membranes
- Waterproofing systems
- Pipe coating
- Industrial adhesives
- Joint fillers
- Corrosion protection



- Electrical insulation
- Industrial flooring

Disclaimer:

The information provided in this MSDS is believed to be accurate and is intended as guidance for the safe handling, storage, transportation, and use of Oxidized Bitumen 85/40. It does not constitute a warranty of product performance or suitability for a particular application. Users are responsible for ensuring compliance with all applicable local regulations and safe operating practices.

