



MATERIAL SAFETY DATA SHEET (MSDS) Oxidized Bitumen 90/10

1. Identification of Substance

Product Name: Oxidized Bitumen 90/10

Chemical Family: Petroleum Hydrocarbon Bitumen

Product Form: Solid Black Blocks

Recommended Use: Industrial waterproofing, roofing, coating, insulation, and construction applications.

2. Hazard Identification

Classification

Oxidized Bitumen 90/10 is generally considered a low-hazard solid material under normal storage and handling conditions.

However, heating the product may create hot material hazards and vapors that require proper ventilation.

Potential Hazards

Heated Product:

- Causes severe burns upon contact.
- Hot bitumen may adhere to skin.
- Vapors may cause discomfort in poorly ventilated areas.

Solid Product:

- Dust from handling may irritate eyes and respiratory passages.



3. Composition Information

Component	Approximate Content
Oxidized Petroleum Bitumen	99%+
Mineral Ash / Trace Components	<1%

4. First Aid Measures

Skin Contact

For hot product contact, cool the affected area with clean water and seek medical attention. Do not attempt to remove solidified bitumen forcefully.

Eye Contact

Flush eyes with clean water and obtain medical advice if irritation continues.

Inhalation

Move the affected person to fresh air if exposed to excessive fumes. Seek medical assistance if symptoms continue.

Ingestion

Do not induce vomiting. Obtain medical advice if swallowed.

5. Fire Fighting Measures

Suitable Extinguishing Media

Use:

- Dry chemical powder
- Carbon dioxide
- Foam
- Water spray

Unsuitable Method

Avoid directing a strong water jet onto burning hot bitumen.

Fire Hazards



When heated above recommended temperatures, bitumen may release combustible vapors.

Protective Equipment

Firefighters should use appropriate protective clothing and respiratory protection.

6. Accidental Release Measures

Solid Product

Collect spilled material mechanically and place it into suitable containers.

Hot Product

Allow material to cool before removal. Avoid contact with skin and use protective equipment.

Environmental Precautions

Prevent large quantities from entering drains, waterways, or soil.

7. Handling and Storage

Handling

- Avoid unnecessary heating.
- Use suitable protective equipment.
- Handle hot material carefully.
- Maintain proper ventilation during melting operations.

Storage

- Store indoors whenever possible.
- Keep away from heat sources.
- Protect from moisture.
- Maintain original packaging condition.



8. Exposure Controls and Personal Protection

Engineering Controls

Provide:

- Adequate ventilation
- Local exhaust systems during heating
- Temperature monitoring equipment

Personal Protective Equipment (PPE)

Recommended:

- Heat-resistant gloves
- Safety goggles
- Protective clothing
- Safety footwear

9. Physical and Chemical Properties

Property	Description
Appearance	Black Solid
Odor	Petroleum Odor
Physical State	Solid at Ambient Temperature
Color	Black
Water Solubility	Insoluble
Specific Gravity	1.01–1.06
Flash Point	Above 250°C
Softening Point	Approximately 90°C



10. Stability and Reactivity

Stability

Stable under normal storage conditions.

Conditions to Avoid

Avoid:

- Excessive heating
- Open flames
- Strong oxidizing agents

Hazardous Decomposition Products

Thermal decomposition may produce:

- Carbon monoxide
- Carbon dioxide
- Hydrocarbon vapors

11. Toxicological Information

Under normal handling conditions, Oxidized Bitumen 90/10 presents low health risks.

Prolonged exposure to heated fumes may cause respiratory irritation. Therefore, proper ventilation and protective equipment are recommended.

12. Ecological Information

The product is not water soluble and presents low mobility in soil.

Avoid uncontrolled release into the environment. Dispose of waste according to local regulations.



13. Disposal Considerations

Dispose of unused material and contaminated packaging according to applicable environmental regulations.

Recycling or controlled industrial disposal is recommended where available.

14. Transport Information

UN Number: Not classified as dangerous goods under normal transport conditions.

Transport Conditions:

- Keep packaging secure.
- Protect from excessive heat.
- Prevent package damage.

Suitable for:

- Road transport
- Sea freight
- Container shipment

15. Regulatory Information

The product should be handled according to applicable:

- Workplace safety regulations
- Environmental regulations
- Chemical handling requirements
- Customer-specific standards