



## Material Safety Data Sheet (MSDS)

### Oxidized Bitumen 75/35

**Product Name:** Oxidized Bitumen 75/35

**Synonyms:** Blown Bitumen 75/35, Air-Blown Asphalt, Oxidized Asphalt

**Recommended Use:** Waterproofing membranes, roofing, pipe coating, industrial insulation, adhesives, expansion joints, construction applications.

### Section 1: Identification

**Product:** Oxidized Bitumen 75/35

### Section 2: Hazard Identification

#### GHS Classification

The solid product is generally **not classified as hazardous** under normal storage and handling conditions.

#### Hazards when heated:

- Causes severe thermal burns.
- Hot vapors may irritate eyes and respiratory tract.
- Combustible at elevated temperatures.
- Hydrogen sulfide (H<sub>2</sub>S) and hydrocarbon fumes may be generated during prolonged heating.

#### Signal Word

#### Warning

#### Hazard Statements

- Hot material causes severe burns.
- Heating may release irritating vapors.
- Combustible when exposed to flame.

#### Precautionary Statements

- Avoid overheating above recommended temperatures.
- Wear heat-resistant PPE.
- Avoid breathing fumes.
- Keep away from ignition sources.

### Section 3: Composition

| Component | CAS Number | Content |
|-----------|------------|---------|
|-----------|------------|---------|

|                            |            |      |
|----------------------------|------------|------|
| Oxidized Petroleum Bitumen | 64742-93-4 | >99% |
|----------------------------|------------|------|

Contains no hazardous additives.

### Section 4: First Aid Measures

#### Eye Contact

#### Cold Product

Flush with water.

#### Hot Product



- Immediately cool with plenty of cold water.
- Do NOT remove adhered material.
- Seek immediate medical attention.

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#### **Skin Contact**

##### **Cold Product**

Wash with soap and water.

##### **Hot Product**

- Cool with water immediately.
- Do not attempt to peel off solidified bitumen.
- Cover with sterile dressing.
- Obtain emergency medical care.

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#### **Inhalation**

Move victim to fresh air.

If symptoms persist:

- Seek medical attention.
- Administer oxygen if necessary.

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#### **Ingestion**

Not normally expected.

Do not induce vomiting.

Seek medical advice.

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### **Section 5: Fire Fighting Measures**

#### **Suitable Extinguishing Media**

- Dry chemical
- Foam
- Carbon dioxide
- Dry sand

#### **Unsuitable Media**

Do not use direct water jet.

#### **Combustion Products**

- Carbon monoxide
- Carbon dioxide
- Sulfur oxides
- Smoke
- Hydrogen sulfide

#### **Protective Equipment**

Self-contained breathing apparatus (SCBA).

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### **Section 6: Accidental Release Measures**

#### **Solid Product**



Collect mechanically.

**Molten Product**

- Allow to cool.
- Remove mechanically.
- Prevent entry into drains and waterways.

Use appropriate PPE.

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**Section 7: Handling and Storage**

**Handling**

- Avoid overheating.
- Prevent skin contact with hot material.
- Use adequate ventilation.
- Avoid breathing vapors.

**Storage**

Store:

- In cool, dry place
- Away from oxidizing agents
- Away from open flames
- Away from direct sunlight

Recommended storage temperature:

**Ambient temperature**

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**Section 8: Exposure Controls / Personal Protection**

**Engineering Controls**

- Local exhaust ventilation
- Good workplace ventilation

**Personal Protective Equipment**

**Eyes**

Chemical goggles

Face shield for hot material

**Hands**

Heat-resistant gloves

**Skin**

Long-sleeved protective clothing

Safety boots

**Respiratory**

Normally not required.

Use respirator if exposed to excessive fumes.

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**Section 9: Physical and Chemical Properties**

**Property**

Appearance

Odor

**Value**

Black solid

Mild petroleum odor

**Property**

Softening Point

Penetration @25°C

Specific Gravity

Flash Point

Auto-Ignition Temperature

Solubility

Vapor Pressure

Density

**Value**

75 ± 5°C

30–40 dmm

1.02–1.06

&gt;250°C

&gt;350°C

Insoluble in water

Negligible

Approx. 1.04 g/cm<sup>3</sup>**Section 10: Stability and Reactivity**

Stable under normal conditions.

Avoid:

- Excessive heating
- Strong oxidizing agents
- Open flames

Hazardous decomposition:

- CO
- CO<sub>2</sub>
- Sulfur oxides
- Hydrocarbon vapors
- Hydrogen sulfide

**Section 11: Toxicological Information****Acute Toxicity**

Low toxicity.

**Skin**

Hot material causes severe burns.

Cold material generally non-irritating.

**Eyes**

Hot product causes severe eye damage.

**Inhalation**

Overheated vapors may cause:

- Headache
- Dizziness
- Respiratory irritation

**Chronic Effects**

No known carcinogenic effects under normal industrial use.

**Section 12: Ecological Information**

- Insoluble in water



- Low mobility after cooling
- Not readily biodegradable
- Avoid uncontrolled environmental release

### Section 13: Disposal Considerations

Dispose according to local regulations.

Preferred methods:

- Recycling where possible
- Approved industrial landfill
- Incineration in licensed facilities

Do not discharge into watercourses.

### Section 14: Transport Information

Oxidized Bitumen 75/35 is generally **not classified as dangerous goods** when transported as a solid at ambient temperature.

#### Transport Conditions

| Mode      | Classification        |
|-----------|-----------------------|
| ADR/RID   | Not regulated         |
| IMDG      | Not regulated (solid) |
| ICAO/IATA | Not regulated (solid) |

#### Molten Material

When transported hot (typically above 100°C), transport regulations for elevated-temperature materials may apply depending on local and international requirements.

### Section 15: Regulatory Information

Manufactured from petroleum-derived materials.

Comply with applicable national and international chemical safety regulations.

### Section 16: Other Information

#### Typical Applications

- Roofing membranes
- Waterproofing systems
- Pipe coating
- Joint fillers
- Adhesives
- Industrial insulation
- Corrosion protection
- Road maintenance products

#### Recommended Handling Temperature

**160–190°C**

Avoid heating above **220°C** to minimize oxidation and the release of fumes.



#### Disclaimer

The information contained in this MSDS is based on current knowledge and industry practices. It is intended solely to assist in the safe handling, transportation, storage, and use of Oxidized Bitumen 75/35. It does not constitute a guarantee of specific product properties. Users are responsible for ensuring compliance with all applicable laws and regulations.

