Material Safety Data Sheet

(MSDS)

Oxidized Bitumen

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Oxidized Bitumen

Other Names: Blown Asphalt, Air-Blown Bitumen, Oxidized Asphalt

Product Use: Industrial applications, roofing, waterproofing, pipe coating, electrical insulation, and construction

Product Number(s): [Specify per order or batch if needed]

Synonyms: Bitumen 85/25, Bitumen 95/25, Bitumen 115/15, Bitumen 115/25, Bitumen 150/5, etc.

Company Identification:

Alps Asphalt Co.

Turan Gunes Blv. Ilkbahar Mah. Sinpas Altinoran ,Ankara, Turkey

Emergency Information Center :

+989120798481 Or +905431850300

International collect calls accepted

Product Information / MSDS Requests:

+989120798481 Or +905431850300

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component CAS Number Amount

Oxidized Bitumen 64742-93-4 100%

SECTION 3: HAZARDS IDENTIFICATION

- **Emergency Overview:**

Oxidized bitumen is a black, semi-solid or solid material with a petroleum odor. Heated material can cause severe thermal burns.

- **Potential Health Effects:**
  - ***Eye Contact:*** **Fumes may cause irritation. Contact with hot material will cause burns.**
  - ***Skin Contact:*** **Prolonged/repeated exposure to dust or fumes may cause irritation. Hot material causes burns.**
  - ***Inhalation:*** **Heated fumes may irritate respiratory tract. Prolonged exposure to fumes may cause headaches, dizziness, or nausea.**
  - ***Ingestion:*** **Not expected to be harmful; ingestion of large amounts can cause digestive discomfort.**
- **Chronic/Other Hazards:**

Prolonged exposure to bitumen fumes has been linked to respiratory effects. Fumes contain PAHs (polycyclic aromatic hydrocarbons), some of which are suspected carcinogens.

SECTION 4: FIRST AID MEASURES

- **Eye Contact: Flush with water for at least 15 minutes. Seek medical attention**

if irritation persists.

● Skin Contact: For contact with hot bitumen, cool area immediately with cold water. Do NOT attempt to remove solidified bitumen from skin—seek medical attention. For contact with cold product, wash with soap and water.

● Inhalation: Move person to fresh air. If symptoms persist, seek medical attention.

● Ingestion: Rinse mouth. Do not induce vomiting. Seek medical advice if symptoms develop.

Note to Physician:

Treat burns as thermal injuries. Do not attempt to remove solidified material from the skin.

SECTION 5: FIRE FIGHTING MEASURES

● Flashpoint: > 250°C (482°F)

● Autoignition Temperature: Approx. 450°C (842°F)

● Flammability Limits (% in air): Lower: 0.7 | Upper: 6

● Extinguishing Media: Foam, dry chemical, or CO_2. Do NOT use direct water stream on molten material.

● Special Firefighting Procedures: Wear self-contained breathing apparatus and full protective clothing.

● Hazardous Combustion Products: Carbon monoxide, carbon dioxide, sulfur oxides, and other unknown hydrocarbons.

SECTION 6: ACCIDENTAL RELEASE MEASURES

● **Personal Precautions: Wear appropriate PPE. Avoid breathing fumes.**

● **Spill Management: Allow hot material to cool and solidify. Scrape up and place in suitable container for disposal. Prevent product from entering drains or waterways.**

● **Reporting: Notify authorities if required by local regulations.**

SECTION 7: HANDLING AND STORAGE

● **Handling:**

○ **Avoid contact with hot material.**

○ **Avoid inhalation of fumes/vapors.**

○ **Use only in well-ventilated areas.**

● **Storage:**

○ **Store in dry, cool, well-ventilated area, away from ignition sources.**

○ **Keep containers tightly closed and properly labeled.**

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

● **Occupational Exposure Limits (for bitumen fume):**

○ **ACGIH TLV: 0.5 mg/m^3 (inhalable fraction, as benzene-soluble aerosol)**

● **Engineering Controls:**

○ **Local exhaust ventilation at points of fume generation.**

● **Personal Protective Equipment:**

○ ***Eyes/Face:*** **Chemical safety goggles if splashing possible.**

○ ***Skin:*** **Heat-resistant gloves/clothing for handling hot material.**

○ ***Respiratory:*** **Use NIOSH-approved respirator for organic vapors if exposure limits may be exceeded.**

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property Value

Appearance Black, solid/semi-solid

Odor Mild petroleum

pH Not applicable

Boiling Point > 400°C

Softening Point 75°C – 150°C (varies by grade)

Penetration 5 – 40 dmm (at 25°C, varies by grade)

Specific Gravity 1.00 – 1.10 (at 25°C)

Solubility Insoluble in water

Vapor Pressure Negligible

Flash Point > 250°C

Viscosity Very high

SECTION 10: STABILITY AND REACTIVITY

- **Stability: Stable under normal conditions.**
- **Incompatibility: Strong oxidizers, acids.**
- **Hazardous Decomposition: Carbon monoxide, carbon dioxide, sulfur oxides, and hydrocarbons when burned.**
- **Polymerization: Will not occur.**

SECTION 11: TOXICOLOGICAL INFORMATION

● **Acute Effects: Fume inhalation may cause irritation. Contact with hot product causes burns.**

● **Chronic Effects: Long-term inhalation of fumes may cause respiratory issues. PAHs in fumes may be carcinogenic with repeated/prolonged exposure.**

● **Carcinogenicity: IARC classifies bitumen fume as Group 2B (possibly carcinogenic to humans).**

SECTION 12: ECOLOGICAL INFORMATION

● **Not expected to be readily biodegradable.**

● **Should not be released to water or soil.**

● **Not classified as dangerous for the environment under standard use.**

SECTION 13: DISPOSAL CONSIDERATIONS

● **Waste Disposal: Recycle or dispose of in accordance with local regulations. Do not discharge into drains, watercourses, or onto soil.**

SECTION 14: TRANSPORT INFORMATION

● **UN Number: Not regulated for transport in solid form.**

● **DOT, IMDG, IATA: Not classified as dangerous goods for transport in solid/cold form.**

● **Proper Shipping Name: Oxidized Bitumen**

SECTION 15: REGULATORY INFORMATION

● **All components listed on TSCA, EINECS, or similar inventories.**

● **Not classified as a hazardous material for most international regulations, but refer to local requirements.**

SECTION 16: OTHER INFORMATION

Revision Date: August 8, 2025

Prepared according to ISO 11014-1

This MSDS has been prepared based on the latest technical information and in compliance with international standards. The information presented here is believed to be accurate and reliable as of the date of revision. However, no warranty is expressed or implied.