

Material Safety Data Sheet (MSDS) - Gilsonite

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

- **Product Name:** Gilsonite
- **Chemical Name:** Natural Bitumen, Asphaltite
- **CAS Number:** 12002-43-6
- **Manufacturer/Supplier:** ATDM

SECTION 2: HAZARDS IDENTIFICATION

- **GHS Classification:** Combustible solid
- **Hazard Statements:**
 - May cause respiratory irritation if inhaled as dust or fumes.
 - Prolonged skin contact may cause dryness or irritation.
- **Precautionary Statements:**
 - Avoid inhalation of dust and fumes.
 - Use protective gloves and safety glasses.
 - Ensure adequate ventilation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- **Chemical Composition:**
 - Natural Bitumen (Gilsonite) - 100%
 - May contain trace amounts of sulfur and hydrocarbons.

SECTION 4: FIRST AID MEASURES

- **Inhalation:** Move person to fresh air. Seek medical attention if breathing difficulty occurs.
 - **Skin Contact:** Wash with soap and water. Apply moisturizer if irritation occurs.
 - **Eye Contact:** Rinse immediately with water for at least 15 minutes. Seek medical attention if irritation persists.
 - **Ingestion:** Rinse mouth with water. Seek medical attention if symptoms occur.
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SECTION 5: FIRE-FIGHTING MEASURES

- **Flammability:** Combustible at high temperatures.
- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, CO₂.
- **Special Protective Equipment for Firefighters:** Use self-contained breathing apparatus if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Use appropriate protective equipment to avoid inhalation.
- **Environmental Precautions:** Prevent excessive dust release into the environment.
- **Cleanup Methods:** Sweep up and collect in suitable containers. Avoid dry sweeping to minimize dust.

SECTION 7: HANDLING AND STORAGE

- **Handling:**
 - Minimize dust generation and accumulation.
 - Use local exhaust ventilation if necessary.
- **Storage:**
 - Store in a cool, dry, well-ventilated area.
 - Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Occupational Exposure Limits:**
 - OSHA PEL: 5 mg/m³ (respirable dust)
- **Engineering Controls:** Use local ventilation if necessary.
- **Personal Protective Equipment (PPE):**
 - **Respiratory Protection:** Use NIOSH-approved dust mask if dust exposure is high.
 - **Eye Protection:** Safety glasses or goggles.
 - **Skin Protection:** Protective gloves if prolonged contact occurs.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Black, brittle solid
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- **Odor:** Slight petroleum odor
- **pH:** Not applicable
- **Boiling Point:** Not applicable
- **Melting Point:** 140 - 160°C
- **Solubility in Water:** Insoluble

SECTION 10: STABILITY AND REACTIVITY

- **Stability:** Stable under normal conditions.
- **Hazardous Reactions:** None known.
- **Conditions to Avoid:** Excessive heat, strong oxidizers.
- **Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, sulfur oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

- **Acute Toxicity:** Not classified as toxic.
- **Chronic Exposure:** Prolonged inhalation of dust or fumes may cause lung irritation.
- **Carcinogenicity:** No known carcinogenic effects.

SECTION 12: ECOLOGICAL INFORMATION

- **Environmental Effects:** Not considered hazardous to aquatic or terrestrial organisms.
- **Persistence & Degradability:** Naturally occurring, does not degrade easily.
- **Bioaccumulation:** Not expected to bioaccumulate.

SECTION 13: DISPOSAL CONSIDERATIONS

- **Waste Disposal Methods:** Dispose of in accordance with local, state, and federal regulations.
- **Packaging Disposal:** Follow regulations for proper disposal or recycling.

SECTION 14: TRANSPORT INFORMATION

- **UN Number:** Not regulated.
 - **Transport Hazard Class:** Not classified.
 - **Packing Group:** Not applicable.
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- **Environmental Hazards:** None.

SECTION 15: REGULATORY INFORMATION

- **U.S. OSHA Classification:** Non-hazardous
- **TSCA Listing:** Listed
- **EU Classification:** Not classified as hazardous.

SECTION 16: OTHER INFORMATION

- **NFPA Rating:** Health - 1, Flammability - 1, Reactivity - 0
- **Prepared By:** ATDM
- **Date of Issue:** 2025-02-06

