

MATERIAL SAFETY DATA SHEET (MSDS)

Product Name: Gilsonite (Natural Asphalt)

Manufacturer: ATDM – Petrochemical Supplier from Iran & UAE

1. Identification

Recommended Uses: Asphalt modifier, drilling fluid additive, foundry carbon additive, ink additive, waterproofing component.

Emergency Contact: **ATDM Safety Department – info@gilsonite-bitumen.com**

2. Hazard Identification

Classification:

- Not classified as hazardous under GHS.
- Non-toxic, non-corrosive, non-reactive under normal conditions.

Potential Hazards:

- Dust may cause **mild eye or respiratory irritation**.
- Combustible at high temperatures > 260°C.
- Molten material can cause thermal burns.

3. Composition / Information on Ingredients

Component	CAS Number	Percentage
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Natural Hydrocarbon Resin	12002-43-6	100%
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No additives or chemical modifiers.

4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical help if irritation continues.
- **Skin Contact:** Wash with water; if molten, cool with water (do NOT remove solidified product).
- **Eye Contact:** Rinse with clean water for 10–15 minutes.
- **Ingestion:** Not expected; seek medical advice if swallowed.

5. Firefighting Measures

- **Suitable Extinguishers:** Foam, dry chemical, CO₂.
- **Specific Hazards:** Emits black smoke and carbon oxides when burned.
- **Firefighting Advice:** Use self-contained breathing apparatus.

6. Accidental Release Measures

- Avoid generating dust.
- Sweep and collect material in clean containers.
- Prevent contact with ignition sources.

7. Handling & Storage

- Avoid dust creation; use dust masks.
- Store away from oxidizers and heat sources.
- Keep bags sealed until use.

8. Exposure Controls / Personal Protection

- **Respiratory:** Mask recommended for powder.
- **Skin:** Gloves during handling.
- **Eyes:** Safety goggles.
- **Ventilation:** Provide local exhaust for industrial usage.

9. Physical & Chemical Properties

Property	Value
Appearance	Black solid / powder
Odor	Mild petroleum odor
Melting Point	135–240°C
Density	1.05–1.10 g/cm ³
Flash Point	> 250°C
Solubility	Soluble in aromatic solvents

10. Stability & Reactivity

- Stable under normal conditions.
- Avoid strong oxidizing agents.
- Hazardous decomposition: CO, CO₂ during combustion.

11. Toxicological Information

- Low toxicity.
- Dust may irritate eyes, nose, throat.
- No carcinogenic components.

12. Ecological Information

- Not toxic to soil or water organisms.
- Biodegrades slowly due to high carbon content.

13. Disposal Considerations

- Dispose according to local industrial waste regulations.
- Non-hazardous material.

14. Transport Information

- Not regulated as hazardous for transport.
- HS Code: **27149000**

15. Regulatory Information

Complies with:

- OSHA Standards
- GHS Guidelines
- International transport rules (non-hazardous classification)

16. Additional Information

ATDM provides customized Gilsonite formulations for asphalt, drilling, and coating applications. Technical support is available for blending, dosage optimization, and product selection.