

Drilling Fluid Grade Gilsonite

Material Safety Data Sheet (MSDS) – prepared in the 16-section format

1. Identification

Product name	Drilling Fluid Grade Gilsonite
Chemical family	Natural asphalt (asphaltite / uintaite, gilsonite type)
CAS number	12002-43-6
Recommended use	Oil-based and synthetic muds, Water-based muds (with dispersant), Lost circulation pills, Horizontal and HPHT wells
Supplier	BASEKIM KİMYASAL ÜRÜNLERİ VE DIŞ TİCARET LTD. ŞTİ.
Contact	info@basekim.com · +971 4 236 98 30
Emergency phone	+971 4 236 98 30 (office hours)

2. Hazard identification

GHS classification	Not classified as hazardous according to GHS criteria (based on available data).
Physical hazards	Fine dust may form combustible dust concentrations in air.
Health hazards	Dust may cause mechanical irritation of eyes and respiratory tract.
NFPA / HMIS (indicative)	Health 0 · Flammability 1 · Reactivity 0

3. Composition / information on ingredients

Main component	Natural asphalt (gilsonite) > 95 %
Impurities	Mineral matter (ash) – see specification

4. First-aid measures

Eyes	Flush immediately with plenty of water for at least 15 minutes. Get medical attention if irritation persists.
Skin	Wash with soap and water. For contact with hot material, cool with water; do not remove adhered material. Seek medical attention.
Inhalation	Remove to fresh air. Get medical attention if irritation persists.
Ingestion	Do not induce vomiting. Rinse mouth and give 1–2 glasses of water. Never give anything by mouth to an unconscious person. Seek medical advice.

5. Fire-fighting measures

Extinguishing media	Water spray, foam, dry chemical, CO ₂ .
Special hazards	Combustion produces carbon oxides, sulphur oxides and smoke. Avoid dust clouds near ignition sources.
Protective equipment	Self-contained breathing apparatus and full protective clothing.

6. Accidental release measures

Avoid generating dust. Collect spilled material by vacuum or gentle shovelling into suitable containers. Prevent entry into drains and waterways. Dispose of according to local regulations.

7. Handling and storage

Handling	Use proper lifting equipment. Avoid dust formation; provide local exhaust ventilation. Avoid contact with strong oxidizers.
Storage	Store in a cool, dry, well-ventilated place, separated from food and strong oxidizing agents. Keep bags sealed. Protect from heat.

8. Exposure controls / personal protection

Exposure limits	Nuisance dust: follow local occupational exposure limits for inhalable / respirable dust.
Respiratory	Dust mask (e.g. FFP2 / N95) where dust is generated.
Eyes	Safety glasses with side shields or goggles.
Hands / body	Gloves and coveralls; heat-resistant gloves when handling hot material.

9. Physical and chemical properties

Appearance	Black, shiny powder
Softening point (R&B)	160 – 220 °C (grades)
Ash content	3–8%
Solubility in TCE	95 – 99 %
Specific gravity @ 25°C	1.04 – 1.06
Moisture, max	1%
Particle size	75 – 200 µm
Odour	Slight asphalt odour
Solubility in water	Insoluble
Flash point	> 200 °C (typical, COC)

10. Stability and reactivity

Stability	Stable under normal conditions.
Conditions to avoid	High temperatures, open flames, dust clouds.
Incompatible materials	Strong oxidizing agents.
Decomposition products	CO, CO ₂ , SO _x , hydrocarbons.

11. Toxicological information

No significant acute toxicity is expected based on available data for similar asphaltic materials. Dust may cause temporary irritation. Not listed as a carcinogen by IARC for this specific material; prolonged exposure to fumes from heated asphaltic products should be minimized.

12. Ecological information

Expected to be persistent and of low solubility in water; low bioavailability. Avoid release to the environment.

13. Transport and logistics information

UN number	Not regulated
Dangerous goods class	Not classified as dangerous goods for road (ADR), sea (IMDG) or air (IATA) transport. Check current regulations before shipping.
Packing	25 kg (50 lb) bags palletized; 1 MT jumbo bags.
Container load	approx. 20–22 MT per 20ft container (25 kg bags, palletized); approx. 20 MT per 20ft container (1 MT jumbo bags)
Loading	20ft containers with lashed pallets or jumbo bags; flatbed trailers with strapped and covered pallets for regional deliveries.
Pallets and marking	Pallets are capped, stretch-wrapped and strapped. Bags are printed with product name, batch number, manufacturing and expiry dates and health and safety information.
Conditions in transit	Keep dry and protected from heat and direct sun. Keep bags sealed and avoid damage to packaging during handling.
Export documents	Commercial invoice, packing list, bill of lading or CMR, certificate of origin, COA and MSDS.

14. Disposal considerations

Dispose of waste and packaging in accordance with local, regional and national regulations.

15. Regulatory information

Users must comply with all applicable local regulations regarding handling, storage and use.

16. Other information

Revision	2026-10
Prepared by	Sun Gilsonite Technical Team, BASEKIM

This MSDS is provided in good faith based on current knowledge and is intended to describe the product for safety purposes only. It should be reviewed by the user against local regulatory requirements.

Prepared by	Approved by	Company stamp
BASEKIM Quality Control Laboratory Date: 2026-10-03	Sun Gilsonite Technical Team, BASEKIM Date: 2026-10-03	APPROVED Sun Gilsonite by BASEKIM Quality Control