



A) SAFETY DATA SHEET (SDS / MSDS)

Product: Gilsonite – Pipe Coating Grade

Supplier: Basekim Chemical Production Co.

Version: 1.0

Revision Date: (Insert Date)

1. Identification of the Substance / Mixture and of the Company

Product Name: Gilsonite – Pipe Coating Grade

Synonyms: Natural Asphalt, Asphaltite, Natural Bitumen

Intended Use:

- Additive in external pipeline coatings (bitumen or resin systems) for oil, gas, water transmission pipelines.
- Waterproofing, corrosion-resistant coating applications on steel and other substrates.

Supplier: Basekim Chemical Production Co.

(Insert full address, telephone, email)

Emergency Contact: (Insert 24h emergency number)

2. Hazard Identification

GHS Classification:

- Not classified as a hazardous substance for general health/environment use as supplied (solid natural asphalt).
- Dust hazard: Fine powder may form combustible dust-air mixtures.

Label Elements:

- Signal word: WARNING (for dust hazard)
- Hazard statements:
 - May form combustible dust/air mixtures.
 - Dust may cause mechanical irritation of eyes, skin, respiratory tract.
- Precautionary statements:
 - Avoid generating dust and avoid inhalation of dust.
 - Use proper ventilation; wear suitable protective equipment.
 - Keep away from ignition sources; ensure good housekeeping



to avoid dust accumulation.

Other hazards:

- Material may become slippery if spilled in wet conditions.
- When heated above softening point, may release fumes and vapours that could irritate.

3. Composition / Information on Ingredients

Substance:

- Gilsonite (Natural Asphalt) – CAS Number: 12002-43-6 (approximate; UVCB)

Typical composition:

- Carbon ~85%
- Hydrogen ~10%
- Nitrogen/Sulphur/Ash vary by grade

Impurities & additives: Trace mineral ash, moisture, volatile matter.

4. First-Aid Measures

Inhalation: Remove to fresh air. If breathing is difficult or irritation persists, obtain medical attention.

Skin contact: Brush off dust. Wash with soap and water. Remove contaminated clothing. Seek medical advice if irritation occurs.

Eye contact: Rinse cautiously with clean water for several minutes.

Remove contact lenses if easy and continue rinsing. Seek medical advice if irritation persists.

Ingestion: Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical attention if feeling unwell.

Symptoms/effects: Mechanical irritation of eyes/skin; dust inhalation may cause coughing, throat irritation.

5. Fire-Fighting Measures

Suitable extinguishing media: Foam, dry chemical, CO₂, water spray.

Unsuitable media: None specific (avoid water jets on molten material if fire involves other materials).



Specific hazards:

- Fine dust may form explosive mixture in air.
- On burning or heating, decomposition may produce CO, CO₂, hydrocarbons and smoke.

Protective equipment for firefighters: Self-contained breathing apparatus and full protective gear. Cool exposed containers with water spray.

6. Accidental Release Measures

Personal precautions:

- Avoid dust generation; use dust mask/respirator if uncontrolled dust.
- Remove ignition sources.
- Evacuate non-essential personnel.

Environmental precautions: Prevent product entering drains, surface water or soil.

Methods for cleaning up:

- Vacuum or shovel spilled material into suitable containers. Avoid dry sweeping in dusty conditions.
- If dusting, lightly mist with water to suppress dust.

Disposal: Dispose of in accordance with local regulations (see Section 13).

7. Handling and Storage

Handling:

- Use good general ventilation or local exhaust in areas where dust is generated.
- Avoid creating dust clouds; use non-sparking tools and grounded equipment if dust present.
- Keep away from flames, hot surfaces, ignition sources.

Storage:

- Store in a cool, dry, well-ventilated place.
- Keep storage containers closed when not in use.



- Protect from moisture, direct sunlight, and sources of heat.
- Keep away from incompatible materials (see Section 10).

8. Exposure Controls / Personal Protection

Occupational exposure limits:

- Treat as nuisance/inert dust: e.g., Total dust: 10 mg/m³; respirable fraction: 3-5 mg/m³ (or local equivalent).

Engineering controls:

- Use ventilation systems to limit dust concentration.

Personal protective equipment (PPE):

- Respiratory protection: Particulate respirator (e.g., N95/P2) if dust limit exceeded.
- Eye protection: Safety glasses with side shields or full goggles in dusty areas.
- Skin protection: Gloves (e.g., nitrile or leather) and protective workwear.
- Hygiene: Do not eat, drink or smoke in handling areas; wash hands before breaks and at end of work shift.

9. Physical and Chemical Properties

Property	Typical Value
Appearance	Black, brittle, glossy solid or flakes
Odour	Mild bituminous hydrocarbon
Softening Point	150-220 °C (depending on grade)
Specific Gravity	~1.04
Moisture Content	< 1 %
Ash Content	0.5-15 % (varying grade)
Solubility	Insoluble in water; soluble in aromatic or aliphatic hydrocarbons
Flash Point	>300 °C (solid hydrocarbon)
Dust Explosion Risk	Fine particulate may form combustible dust-air mixtures



10. Stability and Reactivity

- **Chemical stability:** Stable under recommended storage and handling conditions.
- **Conditions to avoid:** Dust accumulation, ignition sources, overheating.
- **Incompatible materials:** Strong oxidising agents.
- **Hazardous decomposition products:** When heated above softening/melting, may emit CO, CO₂, hydrocarbons, smoke.

11. Toxicological Information

- **Acute toxicity:** Low expected systemic toxicity under normal conditions of industrial use.
- **Skin/eye irritation:** Dust may cause mechanical irritation.
- **Respiratory effects:** Inhalation of dust may cause irritation of respiratory tract.
- **Sensitisation:** No known sensitising effects.
- **Carcinogenicity/mutagenicity:** Not classified as carcinogenic; when overheated may generate polycyclic aromatic compounds with potential hazard.
- **Repeated exposure:** Prolonged inhalation of dust may lead to chronic respiratory effects (e.g., bronchitis-type).

12. Ecological Information

- **Low water solubility;** tends to persist in soil/sediment.
- **Not expected to be highly mobile** in environment.
- **Biodegradation rate slow.**
- **Avoid large releases** to surface water or soil.

13. Disposal Considerations

- **Dispose of in compliance** with local, regional and national regulations.
- **Uncontaminated product:** treat as non-hazardous solid waste if



permitted.

- Contaminated packaging: rinse out and recycle or dispose appropriately.

14. Transport Information

- Not classified as dangerous goods under most transport regulations for solid form.
- Ensure good housekeeping and containment during transport to avoid dust release.

15. Regulatory Information

- Substance generally exempt from hazard classification in many jurisdictions when handled as solid.
- Occupational dust regulations apply.
- Ensure compliance with local chemical safety, waste and environmental law.

16. Other Information

This SDS is provided for industrial customers of Basekim. Users must evaluate suitability for their application, perform risk assessments, and comply with local regulation. Revision and approval date should be updated accordingly.