



SAFETY DATA SHEET (SDS)

According to Globally Harmonized System (GHS)

1. IDENTIFICATION

Product Name: Hematite (Iron Oxide)
Chemical Name: Iron(III) Oxide
Formula: Fe₂O₃
Recommended Use: Weighting agent for drilling fluids, industrial applications

Supplier:
Basekim Kimyasal Ürünler LTD
Turan Güneş Blv. Ilkbahar Mah.
Sinpaş Altınoran Tower 2, Floor 2, Unit 146
Ankara, Turkey

Telephone: +90 (312) 514 7055 / 514 7081
Emergency Contact (Logistics): 88552948
Health Emergency (24h): Basekim Emergency Information Center – International collect calls accepted

2. HAZARD IDENTIFICATION

Classification (GHS): Not classified as hazardous
Signal Word: None
Hazard Statements: Not applicable

Precautionary Statements:

- Avoid breathing dust
- Avoid contact with eyes
- Use adequate ventilation

Potential Health Effects:

- **Inhalation:** Dust may cause respiratory irritation
- **Skin:** May cause mild irritation
- **Eyes:** Mechanical irritation possible

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Concentration
Iron Oxide (Fe ₂ O ₃)	1309-37-1	≥ 95%



4. FIRST AID MEASURES

Inhalation: Remove to fresh air. Seek medical attention if symptoms persist.

Skin Contact: Wash with soap and water.

Eye Contact: Rinse cautiously with water for at least 15 minutes.

Ingestion: Rinse mouth. Do not induce vomiting. Seek medical advice if needed.

5. FIRE-FIGHTING MEASURES

Suitable Media: Water spray, foam, dry chemical, CO₂

Specific Hazards: Non-combustible material

Protective Equipment: Standard fire-fighting gear

6. ACCIDENTAL RELEASE MEASURES

Avoid dust generation.

Use mechanical collection methods (sweeping/vacuum).

Wear appropriate PPE.

7. HANDLING AND STORAGE

Handling:

- Avoid dust formation
- Use local exhaust ventilation

Storage:

- Store in dry, well-ventilated area
- Keep containers tightly closed

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: Not specifically regulated

Engineering Controls: Adequate ventilation

Personal Protective Equipment:

- **Respiratory:** Dust mask (if required)



- Eyes: Safety goggles
- Hands: Protective gloves

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Red to dark brown powder
Odor	Odorless
pH	Neutral
Melting Point	~1565°C
Solubility	Insoluble in water
Specific Gravity	≥ 4.70
Density	~5.0 g/cm ³

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions

Reactivity: No dangerous reactions expected

Conditions to Avoid: Excessive dust formation

Incompatible Materials: Strong acids

11. TOXICOLOGICAL INFORMATION

Low acute toxicity

Prolonged inhalation of dust may cause irritation



12. ECOLOGICAL INFORMATION

Not expected to be environmentally hazardous
Insoluble mineral

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local and national regulations

14. TRANSPORT INFORMATION

UN Number: Not applicable
Transport Class: Not regulated
Packing Group: Not applicable

15. REGULATORY INFORMATION

Complies with international chemical safety standards
Not classified as dangerous substance

16. OTHER INFORMATION

The information provided in this SDS is based on current knowledge and is intended to describe the product for health, safety, and environmental requirements only.