



Safety Data Sheet (SDS / MSDS)

Magnetite Fe₃O₄

Section 1: Chemical Product

Product Name: Magnetite
Catalogue Codes: HC00105
CAS Number: 1309-38-2
EEINECS / EC Number: 215-169-86
UN Number: 1489
Synonym: Iron, Ferric (II,III) Oxide
Chemical Name: Magnetite
Chemical Formula: Fe₃O₄

Section 2: Data Composition

Name: Magnetite
Formula: Fe₃O₄
CAS Number: 1309-38-2
% By Weight: 100%

Toxicological Data on Compositions: Magnetite LD50: Not available. LC50: Not available.

Section 3: Hazards Identification

Potential Acute Health Effects:

Dust Hazard to Skin, eyes and respiratory system – Use gloves, goggles and half-mask

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation: Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.

Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion:

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable. Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Not applicable. Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill: Stop leak if without risk. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dyke if needed. Call for assistance on disposal.

Section 7: Handling and Storage

Precautions: In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.

Storage: Sealed Containers

Section 8: Exposure Controls and Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Eye goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Eye goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid.

Odour: Odourless. **Taste:** Not available.

Molecular Weight: Not available. **Colour:** Dark Brown/Black

pH (1% soln/water): Not available. **Boiling Point:** Not available.

Melting Point: Not available. **Critical Temperature:** Not available.

Specific Gravity: Not available. **Vapour Pressure:** Not applicable. **Vapour Density:** Not available. **Volatility:** Not available.

Odour Threshold: Not available.

Water/Oil Dist. Coeff.: Not available. **Ionicity (in Water):** Not available.

Dispersion Properties: See solubility in water.

Solubility: Insoluble in water

Section 10: Stability and Reactivity

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances:

Not available.

Corrosivity: Non-corrosive in presence of glass. **Special Remarks on Reactivity:** Not available.

Special Remarks on Corrosivity: Not available. Polymerization: No.

Section 11: Toxicological Data

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:

LD50: Not available. LC50: Not available.

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Not available.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Data

Ecotoxicity: Black material, cause visual impact on the environment. No harmful effects on humans, and is not toxic to fauna and flora. Non-harmful to the marine environment.

BOD5 and COD: Not available.

Products of Biodegradation: Not available.

Toxicity of the Products of Biodegradation: Not available.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with local environmental control regulations.

Section 14: Transport

DOT Classification: Not Classed as Hazardous

Section 15: Other Information

References: Not available.

Other Special Considerations: Not available.

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