

MATERIAL SAFETY DATA SHEET

SUBSTANCE: MAGNETITE

1. PRODUCT IDENTIFICATION

Chemical Names and Synonyms:

Black Iron Oxide; Magnetic Iron Oxide;
Ferrous Ferric Oxide

UN Number:

Not Required

CAS Number:**NIOSH Number:**

2. COMPOSITION

Iron Oxide (Fe_3O_4) : 60 - 100%

3. HEALTH HAZARDS

Health Hazard

Low toxicity. Ingestion of large quantities may result in nausea, vomiting and gastrointestinal irritation.

Summary**Eye**

Low irritant. Prolonged or repeated contact may result in mechanical irritation.

Inhalation

Low irritant. Over exposure may result in irritation of the nose and throat, with coughing. Chronic exposure may result in a benign lung pneumoconiosis known as siderosis. Iron oxide particles may remain in the lung when inhaled, however respiratory function is not normally affected.

Skin

Low irritant. Prolonged or repeated contact may result in mechanical irritation.

Ingestion

Low toxicity. Ingestion of large quantities may result in nausea, vomiting and gastrointestinal irritation.

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4. FIRST AID MEASURES

Eye

If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation

If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Skin

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Ingestion

For advice, contact the Poisons Information Centre at +27 21 6895227 or a doctor (at once). If swallowed, do not induce vomiting. Rinse mouth out with water and give plenty of water to drink.

5. PRECAUTIONS

Flammability

Non-flammable. May evolve toxic gases/ fumes (iron oxides) when heated to decomposition.

Reactivity

Incompatible with oxidising agents (eg. hypochlorites), acids (eg. nitric acid) and carbon monoxide.

Ventilation

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.