

1. Identification of the substance/preparation and the company/undertaking

2. Composition/information on ingredients

CAS NUMBER: 51274-00-1

CHEMICAL NAME OF THE SUBSTANCE: Fe₂O₃·H₂O

CHEMICAL FAMILY: Iron Oxide FeO · Fe₂O₃

3. Hazards Rating

Hazard Classification: Health 1 Flammability 0 Reactivity 0

INGREDIENT NAME	CAS NUMBER	PERCENT	EXPOSURE LIMITS
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Iron Oxide Yellow	51274-00-1		ACGIH TLV: 5 mg/M ³ TWA OSHA STEL: 10 ppm (Iron Oxide Fume as Fe) OSHA PEL: 10 mg/M ³ TWA (Iron Oxide Fume as Fe)
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There are extremely small, but detectable amounts of substances regulated under California's Safe Drinking Water and Toxic Enforcement Act (Proposition 65).

Arsenic – less than 2 ppm

Beryllium – less than 2 ppm

Cadmium – less than 2 ppm

Chromium (VI) – less than 0.1 ppm

Lead – less than 10 ppm

These levels are "typical" quantities and may change slightly with different lots. The term "less than" indicates that the substance was detected, but the amount was less than the quantifiable limit.

Section 313 Supplier Notification

This product does not contain toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

4. Physical Data

Appearance and Odor - Yellow Powder - No odor

Specific Gravity (H₂O=1) - 4.03 Solubility in Water - Insoluble

5. Fire and Explosion Hazard Data

FIRE AND EXPLOSION HAZARD: None LIMITS: LEL %: N/A LEL %: N.A

FLASH POINT: Not flammable

EXTINGUISHING MEDIA: As appropriate for surrounding combustibles. Does not burn or support combustion. No fire or explosion hazard.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear self-contained breathing apparatus.

6. Reactivity Data

Material is stable - Hazardous polymerization will not occur.

Chemical incompatibilities: It is incompatible with hydrazine, calcium hypochlorite, performic acid, and bromine pentafluoride.

Conditions to avoid: None

Hazardous Decomposition Products: Will not occur.

7. Health Hazard Data

This product is not considered a carcinogen by IARC, NTP, ACGIH or OSHA.

Summary of risks: May cause mechanical skin and eye irritation. Repeated and prolonged exposures to iron oxide dust may cause a benign
Called siderosis.

Primary entry route(s): Inhalation, ingestion, skin and eye contact.

Acute effects: Causes mechanical skin and eye irritation.

Chronic effect(s): Prolonged inhalation of iron oxide dust is known to produce a condition known as siderosis. On x-rays it appears to be a benign pneumoconiosis and is not associated with pulmonary fibrosis or disability unless there is concurrent exposure to other fibrosis-producing materials such as silica. The TLV is set to protect against siderosis.

First aid:

- Eye contact: Flush eyes with generous amounts of water for at least 15 minutes. Call a physician if irritation persists.
- Skin contact: Wash skin with mild soap and water.
- Inhalation: Remove to fresh air. Call a physician.
- Ingestion: If conscious, give large quantities of

FIRST AID:

Eye Contact: Flush thoroughly with plenty of water for at least 15 minutes. Get medical help if irritation persists.

Skin Contact: Wash from skin with mild soap and water.

Inhalation: Remove to fresh air. Get medical help for any breathing difficulty.

Ingestion: If conscious, give large quantities of water to induce vomiting. Get medical attention.

8. Spill, Leak and disposal procedures

Spill/Leak procedures: Vacuum or use wet clean-up techniques and place waste material in closed container.

Waste management/disposal: disposal must be made in accordance with Federal, State and local regulations. Pursuant to 40 CFR part 261 of the Resource Conservation & Recovery Act (RCRA) Regulations currently in effect. Discarded Iron Oxide would not be classified as a hazardous waste.

9. Special Protection Information:

Personal Protective equipment:

Goggles: Safety glasses with side shields or dust tight goggles.

Gloves: Leather or rubber gloves.

Respirator: If exposure limits are exceeded, an appropriate NIOSH approved dust respirator should be used.

Workplace considerations:

Ventilation: Provide adequate exhaust ventilation to meet TLV requirements in the workplace. An exhaust filter system may be required to avoid environmental contamination.

Safety stations:

An eyewash station should be available to the area of use.

Other: In accordance with good industrial hygiene practice, avoid contact with skin, eyes or clothing. Avoid breathing dust. Keep away from food products. Keep container closed when not in use. Use with adequate localized ventilation. Wash thoroughly after handling and before eating, drinking or using tobacco products.

10. Special Precautions

DOT Class: Not regulated