

IRON OXIDE BLACK

Material Safety Data Sheet (MSDS)

1. PRODUCT IDENTIFICATION

Product Name: iron oxide black
 INCI Name: iron oxide
 CAS Number: 1332-37-2
 EINECS Number: 215-570-8
 Origin: natural, modified

Eye Contact: Dust may cause mechanical irritation.
 Skin Contact: Not a primary skin irritant, but repeated or prolonged exposure may cause skin irritation.
 Ingestion: May cause irritations to the gastrointestinal tract.

2. PHYSICAL & CHEMICAL PROPERTIES

Melting Point:	Decomposes
Boiling Point:	not applicable
Freezing Point:	not applicable
Full Shade:	Delta E <1.2
Specific Gravity:	4.9-5.1
Solubility in water:	insoluble
pH Value:	not determined
Appearance & Odor:	black powder, no odor
Composition:	Iron oxide 70-95%; silica quartz,

8. FIRST AID MEASURES

Eyes: Irrigate eyes with a heavy stream of water for at least 15 to 20 minutes. If irritation persists get medical attention.
 Skin: Wash exposed areas of the body with soap and water.
 Inhalation: Remove from area of exposure. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.
 Ingestion: If large quantities are ingested, get medical advice. Give water to drink to dilute ingested materials.

3. STABILITY & REACTIVITY

Chemical Stability: stable under normal conditions
 Incompatibility: none known
 Hazardous Decomposition Products: none known
 Hazardous Polymerisation: will not occur

9. FIRE FIGHTING MEASURES

Flash Point: not applicable, material not flammable
 Explosion Hazard: air and iron oxide dust can be explosive under certain circumstances
 Extinguishing Media: None—does not burn. Use extinguishing media appropriate for surrounding.
 Fire Fighting Procedures: Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

4. HANDLING & STORAGE

Avoid breathing dust. Wash thoroughly after handling. Avoid contact with eyes. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Avoid freezing or excessive heat. Do not handle or store near an open flame, heat or other sources of ignition. Keep the container tightly closed and in a cool, well-ventilated place.

10. TOXICOLOGICAL INFORMATION

Acute Toxicity: LD50 >5000 mg/kg (oral, rats)
 Carcinogenicity: iron oxide: not studied (OSHA), not classifiable as a human carcinogen (ACGIH). Crystalline silica which may be present in small quantities in iron oxides has been classified by NTP as a substance reasonably anticipated to be a carcinogen.

5. ACCIDENTAL RELEASE MEASURES

Isolate spill area immediately. Keep unauthorized personnel away. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, basements or confined areas. Surface may become slippery after spillage. Use vacuum or broom sweeping and remove to disposal container.

11. DISPOSAL CONSIDERATIONS

Storage and disposal must be in accordance with applicable local, state & federal disposal regulations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

6. EXPOSURE CONTROLS & PERSONAL PROTECTION

Respiratory Protection: Where exposure likely exceeds acceptable criteria, use NIOSH/OSHA-approved respiratory equipment.
 Protective Clothing: Gloves, safety glasses, or face shield recommended. Local exhaust ventilation recommended.
 Exposure Controls of Respirable Dust: OSHA STEL: 10 ppm (iron oxide fume as Fe); ACGIH TLV: 5 mg/m³ TWA

12. TRANSPORT INFORMATION

DOT Shipping Name: not regulated
 ADR/ R I C Code: Refer to corresponding hazard class
 Sea Transport IMDG Code: Refer to corresponding hazard class
 Air Transport IATA: Refer to corresponding hazard class

7. HAZARDS IDENTIFICATION

Inhalation: Acute inhalation of dust may cause mechanical irritation to the respiratory tract.

13. DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.

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