

# SAFETY DATA SHEET

## SECTION 1 - IDENTIFICATION

**Product Name:** Magnetite  
**Chemical Family:** Mineral, Oxide of (1) Iron (Magnetite), Iron Oxide  
**Product Use:** Coalfloat, Water Treatment, Aggregate, Fertilizer, Ballast, Heavy Media  
**Supplier/Manufacturer's Name:** Quality Magnetite, LLC  
**Address:** PO Box 437, 2620 Big Sandy Road, Kenova WV, 25530  
**Emergency Phone:** 1-304-453-2222  
**Business Phone:** 1-304-453-2222  
**Web Site:** [www.qualitymagnetite.com](http://www.qualitymagnetite.com)

## SECTION 2 - HAZARDS IDENTIFICATION(S)

### REGULATORY INFORMATION

According to osha 29 cfr 1910.1200 iron oxide is not "extremely hazardous or toxic". Values are given for permissible exposure limits and threshold values for dusting and fumes. There are no toxic chemicals under sara title iii section 313. This product is listed on tscia inventory. This product has no reportable quantities (rq) under cercla. It is not considered a hazardous waste under cercla or rcra. This product is not listed on the hazardous materials hm 181. Iron oxide does not appear on the hazardous substances list.

### CARCINOGENICITY

This product is not listed as a carcinogen by ntp, iarc, osha or acgih as magnetite

### AGENCY'S

OSHA: occupational safety & health administration; tscia: e.p.a. toxic substances control act; cercla: comprehensive environmental response compensation and liability act; ntp: national toxicology program; iarc: international agency for research on cancer; acgih: American conference of governmental industrial hygienist; rcra: resource conservation and recovery act - re.p.a.

### US OSHA HAZARD SYMBOL

N/A

### US DOT SYMBOLS

N/A

### PRECAUTIONARY STATEMENT(S)

Magnetite is not considered a hazardous material and is therefore not a controlled substance. Magnetite is a naturally occurring substance and is inert, non-corrosive, non-explosive, non-oxidizing and non-toxic



## SAFETY DATA SHEET

### SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Identity:** Iron Oxide 72%

**Common Name:** Magnetite

**Numbers of Identity** CAS- 1309-38-2

**Impurities:** < 1%

**Chemical Identity** Oxygen 27%

**Common Name:** oxygen

**Numbers of Identity** CAS- 7782-44-7

### US OSHA HAZARD SYMBOL US DOT SYMBOLS

Non- Regulated

### SECTION 4 - FIRST AID MEASURES

**Eye Contact:** Flush eyes with plenty of water. Get medical attention if irritation develops or persists

**Skin Contact:** Wash with soap or mild detergent and large amounts of water

**Inhalation:** If adverse effects occur, remove to uncontaminated area.

Give CPR if not breathing, get immediate medical attention

**Ingestion:** Iron oxide is not known to cause problems if ingested

**Medical Conditions aggravated By Exposure:** Respiratory

**Symptoms / Effects:** Difficulty breathing, chills, fever, nausea, vomiting, diarrhea, chest pain, headache, hyperactivity

**Chronic:** None Known

### SECTION 5 - FIRE FIGHTING MEASURES

**Fire Extinguishing Materials:** Use extinguishing agents appropriate for surrounding fire.

**Flash Point:** Not Applicable

**Autoignition:** Not Applicable

**Flammable Limits:** Lower (LEL): NA Upper (UEL): NA

**Unusual Fire and Explosion Hazards:** Negligible fire hazard

**Explosion Sensitivity to Mechanical Impact:** Not Sensitive

**Explosion Sensitivity to Static Discharge:** Not Sensitive

**Special Fire-Fighting Procedures:** Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.



## SAFETY DATA SHEET

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** A NIOSH approved air-purifying respirator with approved cartridge or canister may be appropriate under extreme circumstances where airborne concentrations are expected to exceed exposure limits with little to no ventilation. Wear protective clothing, safety glasses, and gloves.

**Spills:** Keep out of water supplies and sewer, clean up residue with high efficiency particulate vacuum. Dispose of material in accordance with local, provincial and federal regulations. Material may be reclaimed or salvaged for further use. Regulation 40 CFR 261 states that when disposed of this material is not hazardous waste.

### SECTION 7 - HANDLING AND STORAGE

**Work Practices and Hygiene Practices:** Avoid contact with eyes and ingestion. Make sure that work areas have some form of ventilation or fresh air available.

**Storage and Handling Practices:** Store and handle in accordance with all current regulation and standards. Store outside or in a detached building. Avoid creating dust, contact with eyes, skin and clothing.

### SECTION 8 - EXPOSURE CONTROLS-PERSONAL PROTECTION

#### Exposure Limits/Guidelines

Chemical Name	CAS#	ACGIH TWA	OSHA TWA	SWA
Iron Oxide	1309-38-2	5 mg/m3	10mg/m3	Not Listed
Oxygen	7782-44-7	Not Listed	Not Listed	Not Listed

**Ventilation and Engineering Controls:** Use with adequate ventilation to ensure exposure levels are maintained below exposure limits. Use local exhaust ventilation to control airborne dust. Ensure eyewash stations are available near where this material is used.

**Respiratory Protection:** A NIOSH approved air-purifying respirator with approved cartridge or canister may be appropriate under extreme circumstances where airborne concentrations are expected to exceed exposure limits.

**Eye Protection:** Wear appropriate splash resistant safety glasses

**Hand Protection:** Wear appropriate chemical resistant gloves

**Body Protection:** Wear appropriate chemical resistant clothing



## SAFETY DATA SHEET

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Solid, Grey to Black, Powder
<b>Odor:</b>	Odorless
<b>Odor Threshold (PPM):</b>	Not Applicable
<b>pH:</b>	4 to 8
<b>Freezing Point:</b>	Not Applicable
<b>Boiling Point:</b>	Not Applicable
<b>Flash Point:</b>	Not Applicable
<b>Evaporation Rate:</b>	Not Applicable
<b>Flammability:</b>	Not Applicable
<b>Explosive Limits:</b>	Not Applicable
<b>Vapor Pressure:</b>	Not Applicable
<b>Vapor Density:</b>	Not Applicable
<b>Specific Gravity:</b>	5
<b>Solubility(ies):</b>	Insoluble
<b>Auto-Ignition Temperature:</b>	Not Applicable
<b>Decomposition Temperature:</b>	Not Applicable
<b>Melting Point:</b>	2851 F (1566 C)
<b>Viscosity:</b>	Not Applicable
<b>Particle Size:</b>	50 - 100 -325 Mesh

### SECTION 10 - STABILITY AND REACTIVITY

<b>Reactivity:</b>	None
<b>Stability:</b>	Product is stable
<b>Hazardous Polymerization:</b>	Will not occur
<b>Conditions to Avoid:</b>	Temps above 2851 F (1566 C)
<b>Materials With Which Substance is Incompatible:</b>	None
<b>Decomposition Products:</b>	Will not decompose

### SECTION 11 - TOXICOLOGICAL INFORMATION

<b>Irritancy of Product:</b>	Respiratory tract, skin, and eye irritation.
<b>Sensitization of Product:</b>	This product is not considered a sensitizer.
<b>Reproductive Toxicity Information:</b>	This product does not effect the human reproductive system.
<b>Toxicity Data:</b>	None
<b>Suspected Cancer Agent:</b>	Not considered to be a Carcinogen by NTP, IARC, OSHA, MSHA or ACGIH



## SAFETY DATA SHEET

### SECTION 12 - ECOLOGICAL INFORMATION

#### All Work Practices Must be Aimed at Eliminating Environmental Contamination Effects of Chemical On Aquatic Life:

Not evident that this product has any impact on aquatic life.

**Degradation & Persistence:** Not Biodegradable

**Movement In Soil:** Little to no penetration in soil and groundwater. Will not cause adverse ecological effects

**Effect of Material On Plants or Animals:** Has no effect on plants or animals

### SECTION 13 - DISPOSAL CONSIDERATIONS

**Preparing Material For Disposal:** Disposal must comply with appropriate Federal, State, and local regulations and agency's

### SECTION 14 - TRANSPORTATION INFORMATION

**Shipping Name:** Magnetite

**Hazard Class:** Not Applicable

**Identification Number:** Not Applicable

**Packing Group:** Not Applicable

**Label:** Not Applicable



## SAFETY DATA SHEET

### SECTION 15 - REGULATORY INFORMATION

#### REGULATORY INFORMATION

According to osha 29 cfr l 1910.1200 iron oxide is not "extremely hazardous or toxic". Values are given for permissible exposure limits and threshold values for dusting and fumes. There are no toxic chemicals under sara title iii section 313. This product is listed on tsc inventory. This product has no reportable quantities (rq) under cercla. It is not considered a hazardous waste under cercla or rcra. This product in not listed on the hazardous materials hm 181. Iron oxide does not appear on the hazardous substances list.

#### CARCINOGENICITY

This product is not listed as a carcinogen by ntp, iarc, osha or acgih as magnetite

#### AGENCY'S

OSHA: occupational safety & health administration; tsc: e.p.a. toxic substances control act; cercla: comprehensive environmental response compensation and liability act; ntp: national toxicology program; iarc: international agency for research on cancer; acgih: American conference of governmental industrial hygienist; rcra: resource conservation and recovery act - re.p.a.

### SECTION 16 - OTHER INFORMATION

**Date of Preparation:** June 1, 2015

**Date of Last Revision:** June 1, 2015

**Disclaimer:**

All information presented is given in good faith based upon sources and tests believed to be reliable but not guaranteed. It is the end user's full responsibility to accept all risks for handling, storage, and use of this product. Quality Magnetite, LLC assumes no legal responsibility for the use or misuse of this product or assumes no legal responsibility for the use or reliance on this data. This material safety data sheet has been constructed to the best of Quality Magnetite's knowledge based on resources and data available.