Magnetite (Iron Oxide, Black)

MATERIAL SAFETY DATA SHEET

SECTION I: PRODUCT IDENIFICATION

MSDS (Material Safety Datasheet)

Synthetic Magnetite (Black Iron Oxide)



ChemicalStore.com

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Main Menu		SUPPLIER'S NAME: chemicalstore.com, miniscience Inc.				
Homepage	•	SUPPLIER'S ADDRESS: 1059 Main Avenue, Clifton, NJ 07011 TELEPHONE NUMBER: 973-405-6248				
acids	•	For Chemical Emergency Spill, Leak, Fire, Exposure or Accident call				
<u>Bases</u>	•	International, Call (703) 527-3887 (collect calls accepted)				
<u>Metals</u>	•	PRODUCT NAME: Synthetic Iron Oxide Black TRADE NAME: Iron Oxide Black				
<u>Water Treatments</u>	•	GRADES/CODES: FE3O4M1				
Organic Materials	•	FORMULA: Fe3O4 SYNONYMS: Magnetite				
<u>Oxides</u>	•	HMIS RATINGS: H: 0 F: 0 R: 0 PP: SEE "SECTION VIII"				
Indicators	•	SECTION II: HAZARDO	US INGREDIENTS			
Abbreviations	•	INGREDIENT		OSHA		
<u>Codes</u>	•	PEL (CAS #)	ACGIH TWA %			
Thermometers	•	Iron Oxide*	90-94	10		
<u>Other</u>	•	1309-38-2	5 MG/M5			
Non-metals	•	REGULATORY INFORMATION: according to osha 29 cfr i 1910.1200 iron oxide is not "extremely hazardous or toxic". Values are given for permissible exposure limits and threshold values for dusting and fumes.				
<u>Gums, Resins</u>	•					
<u>Salts, Inorganic</u>	•	There are no toxic chemicals under sara title iii section 313. This product is listed on tsca inventory. This product has no reportable				
 <u>QuickLinK</u> <u>Side.net</u> 		quantites (rq) under cer under cercla or rcra. Thi materials hm 181. Iron oxide does not appe ma, or pa. CARCINOGENICITY: th iarc, osha or acgih as sy OSHA: occupational saf substances control act:	cla. It is not consider s product is not listed ear on the hazardous is product is not listed inthetic iron oxide bla ety & health administ cercla: comprehensiv	red a hazardous waste d on the hazardous substances list for nj, d as a carcinogen by ntp, nck. ration; tsca: e.p.a. toxic ve environmental		
		response compensation and liability act; ntp: national toxicology program; iarc: internation agency for research on cancer; acgih: american conference of govermental industrial hygienists; rcra: resource conservation and recovery act – r e.p.a.				
		SECTION III: PHYSICAL DATA				
	APPEARANCE/ODOR: Black Powder/Odorless					

BOILING POINT: Not Applicable

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EVAPORATION RATE: Not Applicable FREEZING POINT: Not Applicable MELTING POINT: 1594 C PH: 4 – 8 @ 50 G/L Water In Aqueous Suspension SPECIFIC GRAVITY: Approx 5 SOLUBILITY IN WATER: Slight VAPOR DENSITY: N/A VAPOR PRESSURE: N/A MOLECULAR WEIGHT: 231.53

SECTION IV: FIRE & EXPLOSION HAZARD DATA

NFPA HAZARD CLASSIFICATION: Health Hazard: 0 Fire Hazard: 0 Reactivity: 0

FLASH POINT: NOT APPLICABLE

FLAMMABILITY LIMITS IN AIR BY VOLUME: NOT APPLICABLE FLAMMABILITY CLASSIFICATION: NOT APPLICABLE

D.O.T. CLASSIFICATION: NOT REGULATED; NOT FLAMMABLE **EXTINGUISHING MEDIA:** use appropriate extinguishing media for the combustible material involved in the fire.

SPECIAL FIREFIGHTING PROCEDURES: FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS.

UNUSAL FIRE & EXPLOSION HAZARDS: NONE. *SEE SECTION V11 REGARDING STORAGE OF MATERIAL

SECTION V: REACTIVITY DATA

STABILITY: STABLE **CONDITIONS TO AVOID:** excessive temperatures of

CONDITIONS TO AVOID: excessive temperatures greater than 176° f (80°c)

INSTABILITY CONDITIONS: excess temperatures. at temperatures greater then 176°f (80°c), product may become unstable and auto oxidize into fe2O3.

INCOMPATIBILITY (MATERIALS TO AVOID): not known HAZARDOUS DECOMPOSITION OR BY PRODUCTS: none **HAZARDOUS POLYMERIZATION:** will not occur

temperatures greater than 176 f (80 c) may cause this product to become unstable (slowly auto oxidize) which generates some additional heat. under certain circumstances this heat may be sufficient to cause combustable material to ignite. do not store near sources of heat, or near flammable or combustable materials.

SECTION VI: HEALTH HAZARD DATA: EFFECTS OF OVEREXPOSURE

Inhalation health risks & symptoms of exposure: sneezing, coughing, runny nose if exposed to extreme dust clouds.

Skin & eye contact health risks & symptoms of exposure: iron oxide is essentially non-irritating to the skin and eyes. (see acute/chronic). Silica amorphous in larger quantities is a slight eye irritant in laboratory animals; mild rash may develop on skin. Ingestion health risks & symptoms of exposure: iron oxide is essentially non-toxic.

Health hazards (acute / chronic): prolonged inhalation of iron oxide dust (6 to 10 years) is known to produce a condition called "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.

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CARCINOGENICITY: ntp, irac, osha, acgih; not listed. See notification "section ii", under "carcinogenicity".

TERATOGENICITY: none known. Lco; graeter than 1000 mg/1 golden orfe (leuciscus idus)

MUTAGENICITY: NON KNOWN

TOXICOLOGICALLY SYNERGISTIC PRODUCTS: NON KNOWN **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** individuals with pre-existing lung diseases may have increased susceptibility if tlv are exceeded.

EMERGENCY & FIRST AID PROCEDURES.

INHALATION: iron oxide is not known to produce any harmful effects if inhaled, however, if victim complains of dizziness move to fresh air immediately.

SKIN CONTACT: wash with water and a mild soap.

EYES: flush eyes with large amounts of water for about fifteen minutes, should an irritation develop contact a physician.

INGESTION: iron oxide is not known to be fatal. Give person water to drink and induce vomiting. Check with a physician.

*****NOTIFICATION:** NEVER GIVE ANYTHING - NOT EVEN WATER TO AN UNCONCIOUS PERSON – GET MEDICAL ATTENTION IMMEDIATELY.

SECTION VII: PRECAUTIONS FOR SHIPPING/STORAGE/HANDLING USE

SPILL OR LEAK PROCEDURES

SPILL PROCEDURES: vacuum or use wet clean-up procedures and place waste material in closed containers. Avoid excessive dusting. **WASTE DISPOSAL METHOD:** material which can not be recycled into work process should be landfilled in accordance with federal, state, and local regulations.

HANDLING/STROAGE PRECAUTIONS: shelf life of iron oxide is unlimited. Store in a cool, dry place. Keep away from food and beverages. Do not store near strong oxidizers.

* temperatures greater than 176 f (80 c) may cause this product to become unstable (slowly auto oxidize) which generates some additional heat. Under certain circumstances this heat may be sufficient to cause combustable material to ignite. Do not store near sources of heat, or near flammable or combustable materials.

<u>SECTION VIII</u>: special protection information/control measures

RESPIRATORY PROTECTION: ambient concentrations in the work area should be monitored and if the recommended exposure limit is exceeded, or concentrations up to 10 times the exposure limit for niosh/msha, use approved respirators.

VENTILIATION: use local ventilation to maintain air levels below the recommended exposure limits if dusting is a problem.

PROTECTIVE GLOVES: rubber, cloth or plastic gloves are recommended to reduce skin contact where appropriate for work conditions.

EYE PROTECTION: safety glasses are recommended.

WORK/HYGENIC PRACTICES: eye wash stations and washing facilities are recommended for employees using product. Employees should wash their hands/face before eating, drinking or using tobacco products.

SECTION IX: TRANSPORTATION DATA

D.O.T. SHIPPING NAME: NOT REGULATED.

HAZARD CLASS: NOT APPLICABLE

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PACKING GROUP: NOT APPLICABLE LABEL: SYNTHETIC IRON OXIDE BLACK

SECTION X: DISCLAIMER

All information presented in this material safety data sheet is given in good faith and is based upon sourced and tests considered to be reliable but they can not be guaranteed. It is the user's full responsibility to accept risk for the safety, handling, storage, use and toxicity of this product, as well as to determine the suitability of the product for a specific purpose. Therefore all risks must be assumed by the user. No warranties are expressed or implied on the accuracy of the information. Pmet, inc. Assumes no legal responsibility for use or reliance upon these data. February 2007

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