

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION.

PRODUCT NAME: **SYN-OX® HB-1094 Black Iron Oxide**
 PRODUCT DESCRIPTION: Black Powder
 CHEMICAL FAMILY: Inorganic Pigment CAS# 12227-89-3
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SECTION II - INGREDIENTS & HAZARDS IDENTIFICATION

Hazard	CAS #	WT/Wt %
<u>Less Than</u>		
IRON OXIDE BLACK - FE304	12227-89-3	100.0

ACGIH TLV: 5 MG/M3 (R) (TWA);

OSHA PEL: 10 MG/M3 (F) (TWA);

(R) = Respirable particles.

(F) = Fumes. Under normal conditions of use of this pigment, fumes as Fe2O3 are not encountered. Fume conditions are encountered in such uses as welding or smelting.

NUISANCE DUST - This material is considered a Nuisance Dust. Please also observe the following exposure limits for this material:

OSHA - PEL = 15 mg/m3 (Total Dust) 5 mg/m3 (Respirable Dust)

APPEARANCE: SPECIFIC GRAVITY: TAP DENSITY: SOLUBILITY (H2O) COLOR
 PH
 BOILING POINT MELTING POINT ODOR
 VOLATILE, %

SECTION III -

POWDER

5.0 g/cc 1.0 g/cc INSOLUBLE BLACK

8.0 N/A N/A NONE N/A

PHYSICAL DATA**SECTION IV: FIRE AND EXPLOSION**

FLASH POINT: None

FLAMMABLE LIMIT: None Applicable.

EXTINGUISHING MEDIA: Dry Chemical, Foam, or CO2. A water mist, fog or spray can be used to control dusting and cool the material.

FIRE FIGHTING PROTECTION: Firefighters should wear self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE OR EXPLOSION HAZARDS: This material is a very fine dust, avoid the use of high pressure water, which could spread burning material and create hazardous dust conditions.

SECTION V: REACTIVITY DATA

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STABILITY: Stable under normal conditions.
POTENTIAL CONDITIONS FOR REACTIONS: None
POLYMERIZATION: None will occur
INCOMPATIBILITY: Strong Oxidizers, such as Chlorates, Bromates,
and Nitrates. ADDITIONAL INCOMPATIBILITY: This material contains
Synthetic Iron Oxide which is incompatible with Hydrazine,
Calcium Hypochlorite, Performic Acid and Bromine Pentafluoride.
HAZARDOUS DECOMPOSITION PRODUCTS: None

SECTION VI: HEALTH HAZARD DATA

RISK SUMMARY: Eye & Skin contact may cause irritation. Excessive
inhalation of dust may cause irritation to the respiratory tract.
PRIMARY ENTRY ROUTES: Inhalation, ingestion, and/or eye contact.
ACUTE EFFECTS: May cause minor eye, skin, and/or respiratory tract
irritations. May irritate pre-existing respiratory diseases such as
asthma.

CHRONIC EFFECTS: Prolonged inhalation at excessive dust levels may
cause damage to the lungs and/or respiratory tract.

EYE CONTACT: Flush thoroughly with large amounts of water. Get
medical attention if irritation persists.

SKIN CONTACT: Wash with mild soap and water. Remove severely
contaminated clothing and clean before reuse. Seek medical attention in
the unlikely event that irritation occurs. INHALATION: Remove to fresh
air and get medical help for any breathing difficulties. INGESTION:
Rinse mouth with water, give subject water to drink and induce
vomiting. Seek medical assistance.

SECTION VII: SPILLS, LEAKS, & DISPOSAL PROCEDURES

SPILLS & LEAKS: Vacuum or scoop up spilled material and dispose of in an
appropriate waste container. Misting with water or absorbent dust
control products may help to keep airborne dust levels at a minimum.
Provide proper ventilation and personal protection equipment for use
during cleanup.

WASTE DISPOSAL: Waste material can be buried in an approved landfill in
accordance with Federal, State, and Local environmental regulations.
According to 40 CFR, Part 261 of the Resource, Conservation, and
Recovery Act (RCRA), this product is not classified as a hazardous
material.

SPECIAL HANDLING INFORMATION: Provide adequate ventilation when
handling this material, material is apt to dust. Material may become
slippery when wet.

SECTION VIII: PROTECTION EQUIPMENT

RESPIRATOR TYPE: NIOSH approved dust respirator suggested. Approved
dust respirators are required when dust exceeds recommended TLV.

EYE PROTECTION: Safety glasses with side shields or goggles are
suggested.

GLOVES: Cloth, leather, rubber, or plastic gloves suggested.

OTHER SUGGESTED PROTECTION EQUIPMENT: Provide an adequate exhaust system that is filtered, to avoid contaminating the environment, and that meets the TLV requirements in the work area. Eye wash stations, sinks and showers should be available.

SECTION IX: STORAGE REQUIREMENTS

STORAGE TEMPERATURE: MIN: AMBIENT / MAX: < 300
Degrees F. AVERAGE SHELF LIFE: Unlimited
SPECIAL SENSITIVITY(to heat, light, moisture): HEAT - Storage at temperatures above 300 degrees F may cause the black iron oxide component in this product to oxidize, generating heat. This may cause surrounding combustibles to ignite.

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a dry place at an ambient temperature and away from food and beverage. Keep material in closed containers. Avoid unnecessary contact; Wash thoroughly after handling; [FOR INDUSTRIAL USES ONLY].

SECTION X: SHIPPING INFORMATION

D.O.T. SHIPPING NAME: Not applicable
TECHNICAL SHIPPING NAME: Inorganic
Pigment D.O.T. HAZARDOUS
CLASSIFICATION: Non-regulated. D.O.T.
LABEL REQUIRED: No.
FREIGHT CLASSIFICATION: Iron Oxide, NOI.

SECTION XI: SUBSTANCE GOVERNMENTAL REGISTRY

TSCA (United States) Listed

EINECS (European Community) Listed

DSL (Canada) Listed

SARA Title III Section 313: Not Listed

REASONS FOR ISSUE: Compliance with 29 CFR, Part 1910.1200.

LIMITATIONS: The data and recommendations made in this document are based on our own research and the research of others, and are believed to be accurate.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS)

Hazard Rating:

4=Severe	Health:	1
3=Serious	Flammability:	0
2=Moderate	Reactivity:	1
1=Slight	Personal Protection:	E (glasses,gloves,dust respirator)
0=Minimal		
