

**SECTION 1**

PRODUCT NAME: **SYN-OX® HY-620M Yellow Iron Oxide**  
 PRODUCT DESCRIPTION: Yellow Powder  
 CHEMICAL FAMILY: Inorganic Pigment(s) CAS# 51274-00-1  
 REVISION DATE: 10/06/06 PRINT DATE: 10/06/06 PRINT TIME:  
 15:56

**SECTION II - INGREDIENTS & HAZARDS IDENTIFICATION**

Hazard	CAS #	WT/Wt %
Less Than		
IRON OXIDE YELLOW - FEOOH	51274-00-1	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 Fe<sub>2</sub>O<sub>3</sub> are not encountered. Fume conditions are encountered in such uses as welding or smelting. -----

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 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 (H<sub>2</sub>O) COLOR  
 PH  
 BOILING POINT MELTING POINT ODOR  
 VOLATILE, %

**SECTION III -**

POWDER  
 4.0 g/cc 0.5 g/cc INSOLUBLE YELLOW  
 7.0 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 CO<sub>2</sub>. 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

ADDITIONAL INCOMPATIBILITY: This material contains Synthetic Iron Oxide which is incompatible with Hydrazine, Calcium Hypochlorite, Performic Acid and Bromine Pent a fluoride.

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: Ambient  
AVERAGE SHELF LIFE: Unlimited  
SPECIAL SENSITIVITY(to heat, light, moisture): None  
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**

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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: 0  
1=Slight Personal Protection: E  
(glasses,gloves,dust respirator)  
0=Minimal