



MATERIAL SAFETY DATA SHEET

ISSUE DATE 05/01/06
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HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

HEALTH HAZARD:	1	Slight	4 = Severe Hazard
FLAMABILITY:	0	Minimal	3 = Serious Hazard
REACTIVITY:	0	Minimal	2 = Moderate Hazard
PERSONAL PROTECTION:	E	Glasses, Gloves, Dust Respirator	1 = Slight Hazard 0 = Minimal Hazard

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: APC 4081, 4480M, 4490, 4490M, 810, PX480, PX490, & 490A
 CAS No.: 51274-00-1
 General Use: Pigmenting Agent
 C.I. Pigment Yellow 42
 C.I. No.: 77492
 Product Description: Synthetic Yellow Iron Oxide

SUPPLIER: ALABAMA PIGMENTS COMPANY
 P.O. Box 309
 Green Pond, AL 35074
 Contact: (205) 938-3065

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component Name/Formula</u>	<u>CAS No.</u>	<u>% WT</u>	<u>OSHA-PEL</u>	<u>ACGIH-TLV</u>
Inert or nuisance dust				
Total dust		100	15 mg/m ³	
Respirable			5 mg/m ³	
Iron oxide fume*	1309-37-1	0	10 mg/m ³ TWA	5 mg/m ³ TWA
Iron oxide (Fe00H)	51274-00-1	96-98		
Total dust			15mg/m ³ TWA	10 mg/m ³ TWA
Respirable			5 mg/m ³ TWA	

*Under the normal conditions of use for this product, fumes as Fe₂O₃ are not present. Iron oxide fume conditions are created under extremely high temperature, as with welding or smelting.

3. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Solid Powder	COLOR	Yellow
SPECIFIC GRAVITY	4.2	ODOR	None
BULK DENSITY	0.35-0.50 g/cm ³	BOILING POINT	N/A
pH	4.0-5.5	MELTING POINT	> 400 F
% VOLATILE @ 105 ^o C ...	0	VAPOR PRESSURE ..	N/A
SOLUBILITY	0.2-0.6%		

4. HEALTH HAZARD INFORMATION

----INGESTION: Not a normal route of exposure. Ingestion of large amounts may cause gastrointestinal disturbances. Symptoms may include salivation, pain, nausea, vomiting and diarrhea.

----INHALATION: Dust may cause mechanical irritation to the respiratory tract. Excessive exposure above the TLV can cause mild pulmonary irritation.

----EYE CONTACT: Will result in no specific effects other than mechanical irritation due to abrasion.

----SKIN CONTACT: Not absorbed by the body, irritation may occur by mechanical abrasion.

SPECIAL TOXIC EFFECTS: Prolonged and repeated inhalation of iron dust may result in siderosis or "iron pigmentation". Siderosis is considered to be a benign condition and does not appear to progress to fibrosis. It generally requires 6-10 years of exposure. Little or no change is found upon physical examination.

5. FIRST AID

----INGESTION: Give large amounts of water to induce vomiting. Seek medical attention.

----INHALATION: Remove victim to fresh air. Give artificial respiration if the victim is not breathing. Seek medical attention with any breathing difficulties.

----EYE CONTACT: Flush thoroughly for 15 minutes with running water. Seek medical attention

----SKIN CONTACT: Remove contaminated clothing. Wash area with soap and water.

6. FIRE FIGHTING AND EXPLOSION DATA

- FLASH POINT: Non-flammable
 - FLAMMABLE LIMIT: LEL-N/A UEL-N/A
 - EXTINGUISHING MEDIA: As appropriate for surrounding for surrounding combustibles. Material does not support combustion.
 - FIRE FIGHTING EQUIPMENT: Self contained breathing apparatus and eye protection.
 - UNUSUAL FIRE OR EXPLOSION HAZARDS: None.
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7. STABILITY AND REACTIVITY DATA

STABILITY	Stable	CONDITIONS TO AVOID	None
POLYMERIZATION	Will not occur	CONDITIONS TO AVOID	None
INCOMPATIBILITY (Materials to Avoid)	None		
HAZARDOUS DECOMPOSITION PRODUCTS	None		

8. HANDLING AND STORAGE

- STORAGE TEMPERATURE: Ambient
 - SHELF LIFE: Unlimited
 - STORAGE PRESSURE: Atmospheric
 - GENERAL: Avoid excessive moisture, which causes material to clump.
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9. ACCIDENTAL RELEASE MEASURES

- GENERAL: Refer to local, state, or federal regulations for specific disposal information. Pursuant to 40 CFR Part 261 of the Resources Conservation and Recovery Act (RCRA) regulations currently in effect, discarded iron oxide would not be classified as a hazardous waste.
 - LAND SPILL: Vacuum or scoop up spilled material for recovery or disposal, avoid dusting conditions and use good ventilation. Wetting the spill area with water spray may help reduce airborne dust levels.
 - WATER SPILL: Product is inert and stable. Decomposition nor polymerization will occur.
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10. EXPOSURE CONTROL AND PERSONAL PROTECTION

- ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Provide mechanical ventilation of confined spaces.
 - PERSONAL PROTECTION:
 - EYE PROTECTION: Safety glasses or dust tight goggles.
 - SKIN PROTECTION: Gloves appropriate for the job conditions.
 - RESPIRATOR: If exposure limits are exceeded, use an appropriate NIOSH dust respirator.
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11. REGULATORY INFORMATION

----DISPOSAL: Iron oxides are not hazardous wastes per 40 CFR 261.24 or 261.3. However consult with the state environmental regulatory agency before disposing of this material, as state regulations may be stricter than federal regulations.

----SPILL REPORTING: Iron oxides are not CERCLA hazardous substances, per 40 CFR 302.4. These are not on the list of hazardous substances under the Clean Water Act (40 CFR 116 and 40 CFR 117), nor are they included on the list of Extremely Hazardous Substances under SARA, 40 CFR 355 Appendix A. Thus, there are no Federal reporting requirements in the event of release of these materials.

----SARA REPORTING: Iron oxides are not subject to the reporting requirements of Section 304 of SARA, since they are not Extremely Hazardous Substances. In addition, these iron oxides are not subject to the reporting requirements of Section 313 of SARA.

12. SHIPPING DATA

D.O.T. SHIPPING NAME ... N/A TECHNICAL SHIPPING NAME ... Inorganic Oxide
D.O.T. HAZARD CLASSIFICATION Non-regulated
D.O.T. LABEL REQUIRED...N/A FREIGHT CLASSIFICATION Iron Oxide, NOI

13. SUBSTANCE GOVERNMENTAL REGISTRY

TSCA	(United States)	Yes
EINECS	(European Community)	Yes
DSL	(Canada)	Not Required
[Reasons For Issue: 29 CFR, Part 1910.1200]		

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