HAZARD MATERIAL IDENTIFICATION SYSTEM

Health Hazard                  0 - Minimal  
Flammability Hazard            0 - Minimal    
Reactivity Hazard              0 - Minimal    
Personal Protection            E - Glasses, Gloves, Dust Resp

SECTION I. MATERIAL IDENTIFICATION

Trade/Material Name: YELLOW IRON OXIDE
Description: Yellow Iron Oxide, C.I. Pigment Yellow 42. C.I. No. 77492
Other Designations: Y-0220
                    YD-1888
                    YB-2087, YB-2097, YB-2900, YB-3100, YB-5900,
                    YO-2087, YO-2288, YO-2587, YO-2600, YO-2900, YO-3587,
                    YO-4900, YO-5087, YO-5286, YO-5900, YO-6087, YO-8087,
                    YK-3587,
                    YLO-1888D, YLO-1988D, YLO-2288D, YLO-3288D, YLO-4088D
                    YP-1700, YP-1750, YP-2087, YP-2100, YP-2100NF,
                    YY-1888, YY-1988, YY-2288, YLY-1900, YLY-1950,
                    YS-3587, YZ-1688, YZ-1888, YZ-1988, YZ-2288, YZ-3288, YZ-4088
                    AP-1700, AP-1750, CX-9802
CAS:                    51274-00-1
Chemical Name: Fe₂O₃·H₂O
MANUFACTURER: Elementis Pigments Inc.  PHONE: 618-646-2201
                  2051 Lynch Avenue  E. St. Louis Plant
                  East St. Louis, IL  62205

SECTION II. INGREDIENTS AND HAZARDS

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>CAS NUMBER</th>
<th>PERCENT</th>
<th>EXPOSURE LIMITS(1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron Oxide Yellow</td>
<td>51274-00-1</td>
<td>&gt;99</td>
<td>ACGIH TLV: 5 mg/M³ TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA PEL: 10 mg/M³**</td>
</tr>
</tbody>
</table>

*Iron Oxide Fume
(1) Nuisance dust
(Ingredients and Hazards continued on next page)
SARA TITLE III: Section 313 Supplier Notification

This product does not contain toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

SECTION III. PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance and Odor: Yellow Powder, No Odor

Solubility in Water (%): Insoluble
Specific Gravity (H₂O=1): 4.03
% Volatile by Volume: 0

SECTION IV. FIRE AND EXPLOSION DATA

Flash Point (method): Not flammable
Extinguishing Media: Not flammable. Use appropriate extinguishing media for the combustible material involved in the fire.
Unusual Fire or Explosion Hazards: None
Special Firefighting Procedures: Firefighters should use self-contained breathing apparatus.

SECTION V. REACTIVITY DATA

Material is stable - Hazardous polymerization will not occur

Chemical incompatibilities: It is incompatible with hydrazine, calcium hypochlorite, performic acid, and bromine pentafluoride.

Conditions to avoid: None
Hazardous Decomposition Products: None
SECTION VI. HEALTH HAZARD DATA

This product is not considered a carcinogen by IARC, NTP, ACGIH or OSHA.

Summary of Health Risks and Symptoms of Exposure: May cause mechanical skin and eye irritation. Repeated and prolonged exposures to iron oxide dust may cause a benign pneumoconiosis called siderosis.

Principal Routes of Entry: Inhalation, ingestion, skin and eye irritation

Acute Effects: Causes mechanical skin and eye irritation.

Chronic Health Effects(s): Prolonged inhalation of iron oxide dust is known to produce a condition known as 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. The TLV is set to protect against siderosis.

Emergency and First Aid Procedures:

Eye Contact: Flush eyes with generous amounts of water for at least 15 minutes. Call a physician if irritation persists.

Skin Contact: Wash skin with mild soap and water.

Inhalation: Remove to fresh air. Call a physician.

Ingestion: If conscious, give large quantities of water to induce vomiting. Get medical attention.

SECTION VII. PRECAUTIONS FOR SAFE HANDLING, USE OR DISPOSAL

Spill / Leak procedures: Vacuum or use wet clean-up techniques and place waste material in closed container.


Precautions to be taken in handling and storing: For transportation emergencies, call CHEMTREC, 24 hour information service, (800) 424-9300.
SECTION VIII. SPECIAL PROTECTION INFORMATION

Personal protective equipment:
Goggles: Wear safety glasses or goggles to protect against dust particles.
Gloves: Leather or rubber gloves.
Respirator: Use of NIOSH approved dust respirator is recommended when exposure limits may be exceeded.

Workplace Considerations:
Ventilation: Local exhaust ventilation to collector or containment recommended to control dust to below exposure limits.
Safety Stations: An eye wash station should be available to the area of use.
Other: In accordance with good industrial hygiene practice, avoid contact with skin, eyes or clothing. Avoid breathing dust. Keep away from food products. Keep container closed when not in use. Use with adequate, localized ventilation. Wash thoroughly after handling and before eating, drinking or using tobacco products.

SECTION IX. SPECIAL PRECAUTIONS

DOT Class: Not regulated

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