

Issue date 16-Nov-2015

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Version 2

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product name TINOX iron oxide Yellow 910; 910M; 920; 920M
Description C.I. PY42 (77492)
CAS No 51274-00-1
Chemical Name Fe₂O₃
Manufacturer TINOX CHEMIE GMBH
Add: Lütticher
Straße132,Düsseldorf,Deutschland Tel: +49 (0)211 52809600
Email: sale@tinnoxchem.de

SECTION II .INGREDIENTS AND HAZARDS

INGREDIENT NAME	CAS#	EXPOSURE LIMITED
Iron Oxide Yellow	51274-00-1	ACGIH TLV: 5mg/CMB TWA (Iron Oxide as Fe) OSHA STEL: 10ppm (Iron Oxide as Fe)

**Application

- 1).Constructions: asphalt and concrete, color floor tile, color facing bricks terrazzo, roofing tiles.
- 2).Paint and coating: water-based exterior and interior wall coating, oil paint primer and finish paints and anti corrosion paint.
- 3).Plastic and rubber: thermosetting plastic and thermoplastic and rubber track.
- 4).Others:paper,leather,ceramics,cosmetic and medicine.

SECTION III .PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance and Odor: Yellow Powder, No Odor

Solubility in Water : ≤0.3%

Specific Gravity: 4.1 % Volatile by volume

SECTION IV .FIRE AND EXPLOSION DATA

Flash Point(Method): Not Flammable

Extinguishing Method: 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 wear self-contained breathing apparatus.

SECTION V .REACTIVITY DATA

Material is stable- Hazardous polymerization will not occur

Chemical It is incompatible with hydrazine

Incompatibilities: Calcium hypochlorite, per formic acid, and bromine

Pentafluoride Condition 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 risk and symptoms of exposure:	May cause mechanical skin and eye irritation Repeated and prolonged exposures to iron oxide
Dust principal routes of entry:	May cause a benign pneumoconiosis called dieresis inhalation of dry iron oxide dust, ingestion, skin, and eye contact
Accute Effects:	Causes mechanical skin and eye irritation
Chronic health effect:	Prolonged inhalation of iron oxide dust is known to produce a condition known as dieresis. 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 with mild soap and water
Inhalation:	Remove to fresh air, call a physician
Ingestion:	If conscious, give large quantities of water to inducevomiting Get medical attention

SECTION VII. PRECAUTIONS FOR SAFE HANDLING, USE OR DISPOSAL

- Spill / Leak Procedures:** Contain the spill to prevent discharge to surface streams
- Waste management disposal:** The environmental concern is discoloration of land or water. Disposal the powder must be made in accordance with the Laws and Regulations. Pursuant to 40 CFR part 261 of the Resource Conservations & Recovery Act (ACAR) Regulations currently in effect, discarded Iron Oxide would not to be classified as a hazardous waste.
- Precaution to be taken in handling and storing:** For transportation emergencies, call +49 (0)211 52809600

SECTION IX. SPECIAL PROTECTION INFORMATION

- Personal protective equipment:**
- Goggles:** Wear safety glasses with side shields or goggles to protect against eye contact with powder
- Gloves:** Rubber or Neoprene gloves to avoid prolong skin contact with powder
- Respirator:** Use of NIOSH approved dust respirator is recommended when exposure limits may be exceeded for the dry Iron Oxide dust
- Other:** An apron may be worn to avoid prolonged shin contact with the powder
- 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 clothes. Avoid breathing DUST. Keep away from food products. Keep container closed when not use. Use with adequate, localized ventilation. Wash thoroughly after handling and before eating, drinking or using tobacco products.

SECTION X.SPECIAL PRECAUTIONS

DOT Class: **Not regulated**