

Material Safety Data Sheet

Pfizer Pigments Inc.
A subsidiary of Pfizer Inc.
235 East 42nd Street
New York, NY 10017

Product: SYNTHETIC/NATURAL
IRON OXIDE BLENDS

MSDS No: PIGMENT / PPI024
Revision: 02
Date: July, 1988

National Paint
and Coatings
Association

Hazardous Material
Identification
System

| | |
|---------------------|--------------------------------------|
| HEALTH HAZARD | 1 - Slight |
| FLAMMABILITY HAZARD | 0 - Minimal |
| REACTIVITY HAZARD | 0 - Minimal |
| PERSONAL PROTECTION | E - Glasses, Gloves, Dust Resp |

SECTION I. MATERIAL IDENTIFICATION

Trade/Material Name: SYNTHETIC/NATURAL IRON OXIDE BLENDS

Description: Red Iron Oxide

Other Designations: NR-4284, NR-4686

CAS: 1309-37-1

Chemical Name: Fe₂O₃

Manufacturer: Pfizer Pigments Inc.
235 E. 42nd Street
New York, NY 10017

Phone: (618) 271-4700 (E. St. Louis
IL Plant)

SECTION II. INGREDIENTS AND HAZARDS

| Ingredient Name: | CAS Number: | Percent: | Exposure Limits: |
|------------------|-------------|----------|--|
| Iron Oxide | 1309-37-1 | | ACGIH TLV: 5 mg/M ³ TWA (Iron Oxide Fume as Fe) |
| Silica - Quartz | 14808-60-7 | 0.1-3% | ACGIH TLV: 0.1 mg/M ³ TWA Respirable Dust |

There are extremely small, but detectable amounts of substances regulated under California's Safe Drinking Water and Toxic Enforcement Act (Proposition 65).

Arsenic - 12-16 ppm

Beryllium - less than 1 ppm

Cadmium - less than 1 ppm

Chromium (VI) - less than 0.1 ppm

These levels are "typical" quantities and may change slightly with different lots. The term "less than" indicates that the substance was detected, but the amount was less than the quantifiable limit.

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SECTION III. PHYSICAL DATA

Appearance & Odor: Reddish Brown Powder, no odor

Water solubility (%): Insoluble

Specific gravity ($H_2O=1$): 4.9-5.1

SECTION IV. FIRE AND EXPLOSION DATA

Flash Point (method): Non-flammable. Limits: LEL %: N/A UEL %: N/A

Extinguishing Media: As appropriate for surrounding combustibles. Does not burn or support combustion. No fire or explosion hazard.

Unusual fire or explosion hazards: None

Special fire-fighting procedures: Firefighters should wear self-contained breathing apparatus.

SECTION V. REACTIVITY DATA

Material is stable Hazardous polymerization will not occur

Chemical incompatibilities: None known

Hazardous decomposition Products: Will not occur.

SECTION VI. HEALTH HAZARD INFORMATION

Summary of risks: Skin contact may cause mechanical irritation due to the abrasion. Eye contact will result in no specific effects other than general particulate irritation in the eye. Not absorbed by the body. Excessive exposure above the TLV can give mild pulmonary irritation.

Primary entry route(s): Inhalation, ingestion, skin and eye contact.

Acute effects: Inhalation of the dust may cause mechanical irritation to the respiratory tract. Skin and eye contact may cause a mechanical abrasion irritation.

Chronic effect(s): Long term overexposure to silica causes silicosis, a form of pulmonary fibrosis. Continued exposure to silica can lead to cardiopulmonary impairment.

First aid:

Eye contact: Flush thoroughly with plenty of water for at least 15 minutes. Get medical help if irritation persists.

Skin contact: Wash from skin with mild soap and water.

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HEALTH HAZARD INFORMATION continued from page 2

Inhalation: Remove to fresh air. Get medical help for any breathing difficulty.

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

Crystalline silica which may be present in quantities greater than 0.1% has been reviewed by IARC. IARC found limited evidence for carcinogenicity of crystalline silica in humans and sufficient evidence in experimental animals.

SECTION VII. SPILL, LEAK AND DISPOSAL PROCEDURES

Spill / Leak procedures: Those involved in clean-up of spills should use respiratory protection for airborne dust. Vacuum or scoop up spilled material for recovery or disposal, avoiding dusting conditions and using good ventilation. Wetting the spill with a water spray may help to keep the airborne dust levels down.

Waste management / Disposal: Refer to any local, State or Federal regulations for specific disposal information. Pursuant to 40 CFR part 261 of the Resource Conservation and Recovery Act (RCRA) regulations currently in effect, discarded Iron Oxide would not be classified as a hazardous waste.

For transportation emergencies, call CHEMTREC, 24 hour information service, (800) 424-9300.

SECTION VIII. SPECIAL PROTECTION INFORMATION

Personal protective equipment:

Goggles: Safety Glasses with side shields or dust tight goggles.

Gloves: Leather or rubber gloves.

Respirator: If exposure limits are exceeded, an appropriate NIOSH approved dust respirator should be used.

Workplace considerations:

Ventilation: Provide adequate exhaust ventilation to meet TLV requirements in the workplace. An exhaust filter system may be required to avoid environmental contamination.

Safety stations:

An eyewash station should be available to the area of use.

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SECTION IX. SPECIAL PRECAUTIONS

Other precautions: Good industrial hygiene practice requires that employee exposure be maintained below the recommended TLV. This is preferably achieved through the provision of adequate ventilation where necessary. Where dust cannot be controlled in this way, personal respiratory protection should be employed.

DOT Class: Not regulated

Prepared/revised by: M. G. Larson

December, 1988

The data and recommendations presented herein are based upon a review of Pfizer files, published MSDS's, and standard toxicological reference sources. Pfizer Inc. makes no guarantee or warranty, either express or implied as to the accuracy or completeness of these data and recommendations.