



HAMMILL & GILLESPIE, INC.

ESTABLISHED 1848

Importers, Exporters & Manufacturers

154 S. LIVINGSTON AVE., P.O. BOX 104, LIVINGSTON, NJ 07039 U.S.A.
TELEPHONE: (201) 994-3650 TELEX: 139114 (HAMGIL LVON)

NON-METALLIC
MINERAL PRODUCTS
AND
CHEMICALS

NATURAL, PROCESSED
AND SYNTHETIC

MATERIAL SAFETY DATA SHEET

To comply with OSHA'S Hazard Communication Standard, 29 CFR 1910.1200

SECTION I. IDENTITY OF PRODUCT AND IMPORTER OR PRODUCER

Trade Name: SPANISH RED IRON OXIDE As Marked on Bag: Superfine
Chemical Name: Hematite Red Oxide
CAS Number: 1317-60-8

Producer Name and Address:
PROMINDSA PRODUCTOS MINERALES
PARA LA INDUSTRIA S.A.
P.O. BOX 1128
48080 BILBOA, SPAIN

Importer/Distributor Name and Address: Telephone Number:
HAMMILL & GILLESPIE, INC. For Emergency and Information
P.O. BOX 104 201/994/3650
LIVINGSTON, NJ 07039 Date Prepared: 8/27/91
Supersedes: 2/25/91

SECTION II. HAZARDOUS INGREDIENTS & OCCUPATIONAL EXPOSURE LIMITS

QUARTZ < 5% by dry weight
CAS # 14808-60-7, Much is not fine enough to be normally respirable

OSHA PEL's
8-hr TWA: 1.42 mg/m³ (Total Respirable Dust)
8-hr TWA: 4.28 mg/m³ (Total Airborne Dust)
ACGIH TLV, 1989-90
TLV-TWA = 0.1 mg/m³ (Respirable Dust)

SECTION III. PHYSICAL DATA

Physical State: Solid
Fusion Range: > 1500°C Specific Gravity: 4.26
Solubility in Water: Slightly Soluble % Volatile (Below 100°C): None
Vapor Pressure: Not Applicable
Odor and Appearance: Red powder, odorless

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

Non-flammable and Non-Explosive

SECTION V. REACTIVITY DATA

Stability: Chemically Stable
Incompatibility (Materials to Avoid): None Known
Hazardous Polymerization: Will Not occur
Reactivity, and under what conditions: None Known

SECTION VI. HEALTH HAZARD DATA

OCCUPATIONAL EXPOSURE LIMITS: See Section II

CARCINOGENICITY: Hematite has been identified as non classifiable as a carcinogen by IARC due to inadequate human and animal evidence. Quartz has not been classified as a carcinogen by NTP or OSHA. IARC has indicated that "there is limited evidence for the carcinogenicity of crystalline silica to humans."

SUMMARY OF RISKS:

Short-term: Exposure to crystalline or amorphous quartz may lead to dryness of skin and mucous membranes.

Long-term: Prolonged exposure to respirable quartz may cause silicosis.

FIRST AID:

Eyes: Flush thoroughly with water. Ingestion: No known hazard.

Skin: Wash off with soap and water.

Inhalation: Remove exposed person to fresh air and support breathing as required.

NOTE: For all cases above, consult physician if conditions persist.

SECTION VII. SPILL, LEAK AND DISPOSAL INFORMATION

Action to be taken in case material is released or spilled:

Clean up and collect, minimizing excessive dust. Use a dustless system, such as wet sweeping or a vacuum, to maintain airborne dust levels below the Permissible Exposure Limits (See Section II)

Waste disposal method:

Any approved solid waste disposal, including burial. Comply with Federal, State and local regulations.

SECTION VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection: If dust concentrations exceed recommended Permissible Exposure Limits, use NIOSH approved dust respirators. If spraying coatings use NIOSH approved dust/mist respirators.

Ventilation: Local exhaust or other ventilation that will reduce dust concentrations to less than Permissible Exposure Limits is recommended. Use adequate ventilation if spraying coatings.

Eye Protection: Wear tight fitting goggles if high dust concentrations exist.

Other Protective Equipment: None required

Other Comments: Impervious gloves or clothing may be worn to minimize skin irritation. Never eat, drink, smoke or wear contact lenses in work areas.

SECTION IX. SPECIAL PRECAUTIONS

Minimize dust generation and exposure. Do not breathe dust.



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NATURAL RED IRON OXIDE
SUPERFINE

CHEMICAL ANALYSIS

Fe ₂ O ₃	81.000 %
SiO ₂	5.000 %
CaO	2.279 %
MgO	2.000 %
Al ₂ O ₃	2.500 %
Mn	0.060 %
P	0.026 %
S	0.005 %
Water-soluble salts	0.130 %
Loss on ignition	7.000 %
pH.	8

PARTICLE SIZE

Microns	<u>% less than</u>
50	100.00 %
25	91.88 %
15	89.77 %
10	79.82 %
5	60.61 %
2	25.27 %
1	5.49 %

Density	4.3971 (g/cc.)
Oil absorption	15.6 (g. oil/100 g.)
Opacity	97 %
Tint Strength	68 %
Specific Surface Area	8.48 m. ² /g.