

MSDS - Red Iron Oxide

January 18, 2012

1. Identification

Synonyms: Ferric Oxide, Red Iron Oxide, Iron Sesquioxide

CAS No.: 1309-37-1

Distributed by: Pestell Minerals & Ingredients, New Hamburg, ON Can.

Emergency Response: CANUTEC: (24 Hrs) 613:996-6666

2. Composition/Information on Ingredients

Iron Oxide: (60%) CAS No.: 1309-37-1

3. Hazards Identification

Emergency Overview

Appearance: Redish brown powder

Warning!! Harmful if inhaled. Affects respiratory system. May cause irritation

to eyes and respiratory tract

Flammability None

Lab Protective Equip. Goggles, Lab Coat

Potential Health Effects:

Eyes May cause mechanical irritation

IngestionExtremely large oral dosages may produce gastrointestinal disturbancesInhalationMay cause irritation to the respiratory tract. Symptoms may include

coughing and shortness of breath.

Chronic Long term inhalation exposure to iron has resulted in mottling of the lungs,

a condition referred to siderosis. This is considered a benign

pneumoconiosis and does not ordinarily cause significant physiological impairment. Long term eye exposures may stain the eye and leave a rust

ring. Long term overexposure to silica causes silicosis, a form of

pulmonary fibrosis. Continued exposure to silica can lead to

cardiopulmonary impairment. There is sufficient evidence to conclude that

crystalline silica inhaled in the form of quartz or cristobalite from

occupational sources is carcinogenic to humans.

4. First Aid Measures

InhalationRemove to fresh air. Get medical attention for any breathing difficultyIngestionIf large amounts were swallowed, give water to drink and get medical adviceSkin ContactWash exposed area with soap and water. Get medical advice is irritation developsEye Contact:Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper

and lower eyelids occasionally. Get medical attention.

5. Fire Fighting Measures

Fire: Not expected to be a fire hazard

Explosion: No information found

Special Information: In the event of a fire, wear full protective clothing and NIOSH approved self

contained breathing apparatus with full facepiece operated in the pressure demand

or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. **Spills**: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits OSHA Permissible Exposure Limit (PEL) – Iron oxide fume: 10 mg/m3 –

ACGIH Threshold Limit Value (TLV)

Iron Oxide Dust/Fumes (FeO3) as Fe: 5 mg/m3 (TWA), inhalable particulate; for particulate matter

containing no asbestos and <1% crystalline silica, A4 – Not classified as a human

carcinogen.

VentilationSystem A system of local and/or general exhaust is recommended to keep employee

exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation A Manual of Recommended Practices,

most recent edition for details.

Personal Respirators (NIOSH Approved): If the exposure limit is exceeded and engineering controls

are not feasible, a half facepiece particulate respirator (NIOSH) type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. If oil particulates (eg. Lubricants, cutting fluid, glycerine, etc) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full facepiece positive pressure, air supplied respirator. WARNING!! Air purifying respirators do not protect

supplied respirator. WARTHING: All pullfying respirators do not prote

workers in oxygen deficient atmospheres.

Skin Protection Wear protective gloves and clean body covering clothing

Eye Protection: Use chemical safety goggles. Maintain eyewash fountain and quick drench

facilities in work area.

9. Physical and Chemical Properties

Appearance: Reddish brown powder **Solubility** Negligible (<0.1%)

pH: No information foundBoiling Point No information found

Vapor Density Not applicable Evaporation Rate Not applicable

Odor No information found

Specific Gravity 5.24

% Volatiles by volume @ 21C (70F):0
Melting Point 1565C (2849F)
Vapor Pressure(mm Hg) Not applicable

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage

Hazardous Decomposition No information found

Hazardous Polymerization: Will not occur

Incompatibilities: Carbon monoxide, hydrazine, calcium hypochloride, performic acid, bromine

pentafluoride

Conditions to avoid Incompatibles

11. Ecological Information:

Environmental Fate: No information found **Environmental Toxicity** No information found

12. Toxicoloigcal Information

Iron Oxide: NTP Carcinogen: Known: Yes Anticipated: Yes IARC Category: 3

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an

appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State

and local disposal regulations may differ from federal disposal regulations.

Dispose of container and unused contents in accordance with federal, state and

local requirements.

14. Transport Information

Not regulated

15. Regulatory Information

Chemical Inventory Status (Fe203 (1309-37-1 – Canada – Yes)

Federal, State & International Regulations: CERCLA: No 261.33: No

Chemical Weapons Convent No CDTA. No Chronic Yes

Pressure No (Pure/Solid)

TSCA 12(b) No

SARA 311/312: Acute: Yes

Fire No.

Reactivity WHMIS

No

This MSDS has been prepared according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 1 Flammability: 0 Reactivity: 0

Label Hazard Warning: Warning! Harmful if inhaled. Affects respiratory system. May cause irritation to eyes

and respiratory tract.

Label precautions: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing dust. Keep container closed. Use only with adequate ventilation.

Label First Aid: If inhaled, remove to fresh air. Get medical attention for any breathing difficulty. In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

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