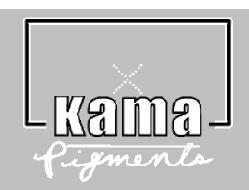
Safety Data Sheets

Brown Ochre Py43

Product code: PS-MI0010

Department: iron oxides dry pigments

C.A.S.: 1309-37-1, 14807-96-6, 546-93-0, 14808-60-7



Section: 1 Identification

Product: natural iron oxide pigment

company: KAMA pigments

7442 St-Hubert Montréal Québec, H2R 2N3

phone: 514 272 2173

email: info@kamapigment.com

recommended uses: pigment for use in artists' colors, paints; coloring material not for use in tattoo inks,

cosmetics any medical related applications.

Section: 2 Hazard Identification

HAZARDS SUMMARY:

Hazards, Quick Guide: inhalation of product dust may damage lung, possible carcinogen

Canada: WHMIS D2A

U.S.A.: HMIS Health – 1, Fire – 0, Reactivity – 0

HAZARDS – TOXICITY: Effects, Acute Exposure

Skin Contact no effect
Skin Absorption nil

Eye Contact dust may be a mechanical irritant

Inhalation dust may be a mechanical irritant, causing coughing and/or sneezing not known; probably no effect – not a route of industrial exposure

Effects, Chronic Exposure

General prolonged exposure to dust in iron ore miners has resulted in iron oxide accumulation in

lungs; a form of benign pneumoconiosis has been associated with high levels of exposure

to iron oxide dust

Sensitizing not a sensitizer in humans or animals

Carcinogen/Tumorigen iron oxide is not considered a tumorigen or a carcinogen in humans or animals

crystalline silica is considered to be a human carcinogen

remaining components are neither tumorigens nor carcinogens in humans or animals

Reproductive Effect no known effect in humans or animals no known effect on humans or animals

Synergistic With not known LD50 (oral) not known LD50 (skin) not known LC50 (inhalation) not known

HGS Label Elements



Signal Word

Danger

GHS Classification

Carcinogenicity-Cat.1A

Hazard statements

May cause cancer (H350)

Precautionary Statements

P201 Obtain special instructions before use.

P202 Do not handle until you read and understand all safety precautions.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P281 Use personal protective equipment as required.

P308 + P313 IF exposed or concerned: Get medical advice.

Section: 3 Composition / Information on Ingredients

COMPONENTS	CAS#	%	LD50(mg/kg) ORAL	LD50 (mg/kg) SKIN	LC50 ppm INHALATION
Iron Oxide (Fe2O3) Magnesium silicate (talc) Magnesite (MgCO30) Crystalline Silica (SiO2) other Non-hazardous	1309-37-1	50 - 55	>10,000	not known	not known
	14807-96-6	13 - 17	not known	not known	not known
	546-93-0	12 - 14	not known	not known	not known
	14808-60-7	2 - 3	not known	not known	not known
	Not avail.	14 - 18	not known	not known	not known

Section: 4 First Aid Measures

SKIN: Wash with soap and plenty of water. Remove contaminated clothing and do not reuse until thoroughly cleaned

or laundered.

EYES: Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly if there is irritation.

INHALATION: Remove from contaminated area promptly. CAUTION: Rescuer must not endanger himself! If breathing stops,

administer artificial respiration and seek medical aid promptly.

INGESTION: Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting

occurs, lower victim's head below hips to prevent inhalation of vomited material.

Seek medical help promptly.

NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The danger of this is greater than

the risk of poisoning through absorption of this relatively low-toxicity substance. The stomach should only be

emptied under medical supervision, and after the installation of an airway to protect the lungs.

Section: 5 Fire Fighting Measures

Flash Point cannot burn
Auto ignition Temperature cannot burn
Flammable Limits cannot burn
Combustion Products none

Firefighting Precautions as for materials sustaining fire; firefighters must wear SCBA

Static Charge Accumulation cannot burn, not applicable

Section: 6 Accidental Release Measures

Leak Precaution Handling Spill

not required - solid material

shovel carefully (do not create dust) or vacuum spilled material; sprinkle residue with dust suppressing sweeping compound, sweep, shovel and store in closed containers for disposal

Section: 7 Handling And Storage

Avoid moisture. No other special storage requirements.

Section: 8 Exposure Control/Personal Protection

EXPOSURE VALUES:

Ventilation

COMPONENT ACGIH TLV **OSHA PEL** NIOSH

Iron Oxide 5 ma/m³ 10 mg/m³ 5 mg/m³

(dust & fumes) (dust & fumes) (dust & fumes)

Magnesium silicate (Talc) 2 mg/m3 (respirable) 20 mppcf, < 1% quartz 2 mg/m3 (respirable)

Magnesite 10 mg/m3 (total) 15 mg/m³ (total) 10 mg/m³ (total)

5 mg/m³ (respirable) 5 mg/m³ (respirable)

Crystalline Silica 0.05 mg/m³ (respirable) 0.05 mg/m³ not known (respirable)

0.025 mg/m3 (SiO)

mechanical ventilation may be required to maintain airborne dust below TWAEV; depending on

handling procedures

NOTE: Crystalline silica is considered a human carcinogen. Engineering controls should be in place to

eliminate or at least reduce dust formation. If dust formation occurs, ventilation should be installed to

clear this at source.

no special protective gloves required Hands

safety glasses with side shields - always protect the eyes Eves

no special protective clothing required Clothing

NIOSH approved dust mask Respirator

Section: 9 Physical and Chemical Properties

Odour & Appearance odourless yellow powder

Odour Threshold not known

Vapour Pressure none - will not vapourise Evaporation Rate (Butyl Acetate=1) none - not volatile Vapour Density (air = 1) 5.5 (theoretical only)

Boiling Range not known

Melting Point 1565 °C / 2849 °F - Fe2O3 only

Density 3.0 Water Solubility

Viscosity not applicable - solid substance

7.6 Hq

Molecular Weight not available

Section: 10 Stability And Reactivity

dangerously Reactive With Also Reactive With Stability Decomposes in Presence of Decomposition Products

Sensitive to Mechanical Impact

not known none stable; will not polymerize red hot carbon (Fe2O3)

iron and carbon monoxide/carbon dioxide

no

Section: 11 Toxicological Information

Iron Oxide:

Immediately dangerous to Life or Health: 2500 mg/cu m (as Fe) /Iron oxide dust and fume, as Fe/ OSHA Standards: Permissible Exposure Limit: Table Z-1 8-hr Time Weighted Avg: 10 mg/cu m. /Fume/ NIOSH Recommendations: Recommended Exposure Limit: 10 Hr Time-Weighted Avg: 5 mg/cu m. /Iron oxide dust and fume, as Fe/ NIOSH concluded that the documentation cited by OSHA was inadequate to support the proposed PEL (as an 8-hr TWA) of 10 mg/cu m for rouge. /Rouge/

Threshold Limit Values:

8 hr Time Weighted Avg (TWA): 5 mg/cu m. /Iron oxide dust and fume (Fe2O3), as Fe/ Excursion Limit Recommendation: Excursions in worker exposure levels may exceed three times the TLV-TWA for no more than a total of 30 min during a work day, and under no circumstances should they exceed five times the TLV-TWA, provided that the TLV-TWA is not exceeded. Iron oxide dust and fume (Fe2O3), as Fe/ A4; Not classifiable as a human carcinogen. /Iron oxide dust and fume (Fe2O3), as Fe/ 2005 Notice of Intended Changes: These substances, with their corresponding values and notations, comprise those for which (1) a limit is proposed for the first time, (2) a change in the Adopted value is proposed, (3) retention as an NIC is proposed, or (4) withdrawal of the Documentation and adopted TLV is proposed. In each case, the proposals should be considered trial values during the period they are on the NIC. These proposals were ratified by the ACGIH Board of Directors and will remain on the NIC for approximately one year following this ratification. If, during the year, the Committee neither finds nor receives any substantive data that change its scientific opinion regarding an NIC TLV, the Committee may then approve its recommendation to the ACGIH Board of Directors for adoption. If the Committee finds or receives substantive data that change its scientific opinion regarding an NIC TLV, the Committee may change its recommendation to the ACGIH Board of Directors for the matter to be either retained on or withdrawn from the NIC. 8 hr Time Weighted Avg (TWA): 5 mg/cu m); respirable fraction; Notations: A4; Not classifiable as a human carcinogen; TLV Basis-Critical Effect(s):Pulmonary siderosis.

Magnesite:

OSHA's former PEL for magnesite was 15 mg/m³, measured as total particulate; this was the Agency's generic limit for all dusts and particulates. The ACGIH has a TLV-TWA of 10 mg/m³, also measured as total particulate. The proposed PELs for magnesite were 8-hour TWAs of 10 mg/m³ (total particulate) and 5mg/m³ (respirable fraction). In the final rule, however, OSHA is retaining its former total particulate limit of 15 mg/m³ for magnesite. Magnesite occurs as a white powder.

Magnesite is considered by both OSHA and the ACGIH to be one of the dusts that "do not produce significant organic disease or toxic effect when exposures are kept under reasonable control" (ACGIH 1986/Ex. 1-3). Exposure to excess levels of magnesite in the workplace causes skin or mucous membrane irritation resulting either from contact with the magnesite itself or from the rigorous cleansing procedures necessary for removing the dust. NIOSH, the only commenter on this substance, has not substantively reviewed the effects of exposure to magnesite (Ex. 8-47, Table N4). OSHA is retaining its 8-hour TWA PEL of 15 mg/m³ TWA for magnesite, measured as total particulate; the 5-mg/m³ TWA limit for the respirable fraction is also being retained. The Agency concludes that these limits protect workers from the significant risk of skin, mucous membrane, and other physical irritation.

Crystalline Silicone:

NIOSH Recommendations: Recommended Exposure Limit: Silica, crystalline: 10 hr Time Weighted Avg: 0.05 mg/cum, respirable fraction. NIOSH considers crystalline silica to be a potential occupational carcinogen. Threshold Limit Values: 8 hr Time Weighted Avg (TWA): 0.05 mg/cu m, respirable fraction /Silica, Crystalline Quartz/ A2; Suspected human carcinogen. /Silica, Crystalline Quartz/ 8 hr Time Weighted Avg (TWA): 0.05 mg/cu m, respirable fraction /Silica, Crystalline Cristobalite/ 8 hr Time Weighted Avg (TWA): 0.1 mg/cu m, respirable fraction, as quartz /Silica, Crystalline Tripol/ Excursion Limit Recommendation: Excursions in worker exposure levels may exceed three times the TLV-TWA for no more than a total of 30 min during a work day, and under no circumstances should they exceed five times the TLV-TWA, provided that the TLV-TWA is not exceeded. /Silica, Crystalline Quartz, Cristobalite, Tridymite & Tripoli/ 2005 Notice of Intended Changes: These substances, with their corresponding values and notations, comprise those for which (1) a limit is proposed for the first time, (2) a change in the Adopted value is

proposed, (3) retention as an NIC is proposed, or (4) withdrawal of the Documentation and adopted TLV is proposed. In each case, the proposals should be considered trial values during the period they are on the NIC. These proposals were ratified by the ACGIH Board of Directors and will remain on the NIC for approximately one year following this ratification. If, during the year, the Committee neither finds nor receives any substantive data that change its scientific opinion regarding an NIC TLV, the Committee may then approve its recommendation to the ACGIH Board of Directors for adoption. If the Committee finds or receives substantive data that change its scientific opinion regarding an NIC TLV, the Committee may change its recommendation to the ACGIH Board of Directors for the matter to be either retained on or withdrawn from the NIC. 8 hr Time Weighted Avg (TWA): 0.025 mg/cu m (respirable fraction); Notations: A2-Suspected human carcinogen; TLV Basis-Critical Effect(s): Silicosis, fibrosis. /alpha-Quartz and Cristobalite / 2005

Section: 12 Ecological Information

Bioaccumulation Biodegradation Abiotic Degradation Mobility in soil, water Marine Toxicity this product cannot bioaccumulate

this product is relatively inert and will not biodegrade

this product is relatively inert and will not undergo abiotic degradation this product is water insoluble and will not move in soil and water

no data

Section: 13 Disposal Considerations

Waste Disposal

do not flush to sewer, this product is not a hazardous waste; may be dumped in sanitary

landfill unless local regulations forbid this

Containers Dr

Drums should be reused. Recondition & pressure test by licensed reconditioner prior to re-

use.

Pails must be vented and thoroughly dried prior to crushing and recycling.

IBCs (intermediate bulk containers): pressure test & recertify polyethylene bottle at 30 months.

Replace at 60 months (5yrs). Inspect, pressure test & recertify steel containers every 5 years.

Never cut, drill, weld or grind on or near this container, even if empty

Section: 14 Transport Information

Canada TDG U.S.A. 49 CFR Marine Pollutant

Emergency Number

PIN UN-not regulated for transport PIN UN- not regulated for transport

not a marine pollutant Newalta (800) 567-7455

Section: 15 Regulatory Information

This product has been classified in accordance with the hazard criteria of the CPR and GHS and the MSDS contains all the required informations.

Canada DSL on inventory
U.S.A. TSCA on inventory
Europe EINECS on inventory

Section: 16 Other Information

Reference Manufacturer's material safety data sheet.

Prepared by Kama pigments

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