# **Safety Data Sheets**

# **Green Umber Pbr7**

Product code: PS-MI0072 Department: iron oxides dry pigments C.A.S.: 1309-37-1, 14807-96-6, 14808-60-7, 1332-58-7, 1333-86-4



#### **Section: 1 Identification** Product : natural iron oxide pigment **KAMA** pigments company: 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 HMIS Health - 1, Fire - 0, Reactivity - 0 U.S.A.: HAZARDS - TOXICITY : Effects, Acute Exposure no effect Skin Contact Skin Absorption nil Eve 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 Ingestion 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. Chronic inhalation of kaolin may cause a particular type of pneumoconiosis called kaolinosis; pure kaolin is apparently not fibrogenic and does not induce debilitating silicosis; however, if it is contaminated with crystalline silica it may produce severe lung effects, including emphysema and pulmonary fibrosis due to the contaminating silica. Prolonged exposure to magnesium silicate by inhalation may cause talc pneumoconiosis (talcosis), which affects the lungs. not a sensitizer in humans or animals Sensitizing 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 and carbon black is considered a

carcinogens in humans or animals

not known

above 10.000

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

Reproductive Effect Mutagen Synergistic With LD50 (oral)

Product Kama Pigments PS-MI0072, Green Umber Pbr7

possible human carcinogen. Remaining components are neither tumorigens nor

not known not known

### **HGS Label Elements**



#### **Signal Word**

Danger

### **GHS Classification**

Carcinogenicity-Cat.1 Carcinogenicity-Cat.1A Carcinogenicity-Cat.2 Specific target organ toxicity -repeated exposure-Cat.1 Combustible dust-Cat.1

### **Hazard statements**

H350 May cause cancer

#### **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.
May form combustible dust concentrations in air

# **Section: 3 Composition / Information on Ingredients**

HAZARDOUS INGREDIENTS	CAS #	WT. %
Iron Oxide	1309-37-1	-
Iron Oxide, Black	1332-37-2	-

# **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: INHALATION:	Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly if there is irritation. 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 Auto ignition Temperature Flammable Limits Combustion Products Firefighting Precautions Static Charge Accumulation cannot burn cannot burn cannot burn none as for materials sustaining fire; firefighters must wear SCBA 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: COMPONENT	ACGIH TLV	OSHA PEL	NIOSH
Iron Oxide	5 mg/m³ (dust & fumes)	10 mg/m³ (dust & fumes)	5 mg/m³ (dust & fumes)
Magnesium silicate (Talc)	2 mg/m <sup>3</sup> (respirable)	20 mppcf, < 1% quartz	2 mg/m³ (respirable)
Crystalline Silica	0.05 mg/m <sup>3</sup> (respirable) 0.025 mg/m <sup>3</sup> (SiO)	not known	0.05 mg/m³ (respirable)
Kaolin	2 mg/m³ (fumes)	15 mg/m³ (total) 5 mg/m³ (respirable)	10 mg/m³ (total) 5 mg/m³ (respirable)
Magnesite	10 mg/m <sup>3</sup> (total)	15 mg/m³ (total) 5 mg/m³ (respirable)	10 mg/m <sup>3</sup> (total) 5 mg/m <sup>3</sup> (respirable)
Carbon Black	3.5 mg/m <sup>3</sup>	3.5 mg/m³	3.5 mg/m³
Ventilation	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.		
Hands Eyes Clothing Respirator	no special protective gloves required safety glasses with side shields – always protect the eyes no special protective clothing required NIOSH approved dust mask		

## **Section: 9 Physical and Chemical Properties**

Odour & Appearance Odour Threshold Vapour Pressure Evaporation Rate (Butyl Acetate=1) Vapour Density (air = 1) Boiling Range Melting Point Density Water Solubility – also soluble in Viscosity pH Molecular Weight odourless brown powder not known none – will not vapourise none – not volatile 5.5 (theoretical only) not known  $1565 \,^{\circ}C / 2849 \,^{\circ}F - Fe2O3$  only 2.22% - (MgO) & (CaO) are water soluble acid solutions not applicable – solid substance 7 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 CaO & MgO react with water & with acids, but only 2% of product 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 change its recommendation to the ACGIH Board of Directors for adoption. If 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:	
J	OSHA's former PEL for magnesite was 15 mg/m <sup>3</sup> , 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/m <sup>3</sup> , also measured as total particulate. The proposed PELs for magnesite were 8-hour TWAs of 10 mg/m <sup>3</sup> (total particulate) and 5mg/m <sup>3</sup> (respirable fraction). In the final rule, however, OSHA is retaining its former total particulate limit of 15 mg/m <sup>3</sup> for 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/m<sup>3</sup> TWA for magnesite, measured as total particulate; the 5-mg/m<sup>3</sup> 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	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 PINUN-not regulated for transportPINUN- not regulated for transportnot a marine pollutantNewalta (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 U.S.A. TSCA Europe EINECS Proposition 65 (California) on inventory on inventory on inventory This product contains a chemical known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

## **Section: 16 Other Information**

Reference Prepared by Manufacturer's material safety data sheet. Kama pigments

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Last revision: 2023-12-18