Material Safety Data Sheet





Section 1. Product

Product Name	Fine Saffron		
		Effective Date	5/11/2018
		Print Date	5/11/2018
Material Uses	Cosmetic Pigments		
Chemical Family	Inorganic pigment.		
Section 2	2. Composition and Information on Ingredient		
Component	4		% iṃ Weight
TITANIUM DIOXIE MICA (mineral)	JE		42-52 36-52
IRON OXIDE	3 -		6-12
Section	3. Hazards Identification		
Physical State and Appearance	Solid. (Red-gold, odorless, lustrous powder)		
Emergency Overvie	W MAY CAUSE RESPIRATORY TRACT, EYE	AND SKIN IRRITATION.	
Routes of Entry	Eye contact. Inhalation. Ingestion (not anticipate)	pated).	
Potential Aetttc Hea			
	Eyes May cause eye irritation. Symptoms includ		
	Skin May cause mild skin irritation. Symptoms in		
	Inhalation May cause respiratory tract irritation. Sympton when inhaled.		
	Ingestion Not an intended route of exposure. May be gastrointestinal tract upset and diarrhea.	hazardous in case of ingestion.	Symptoms include:
Potential Chronic H	gastrointestinal tract upset and diarrhea.		

Aggravated by Overexposure:

Continued on Next Page

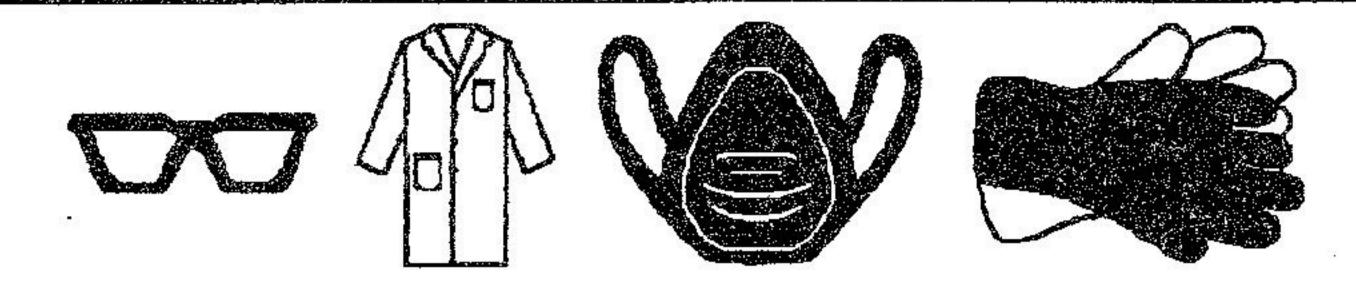
Hands Recommended: Gloves.

Feet Not applicable.

Fine Saffron

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Protective Clothing (Pictograms)



Personal Protection in Case of Splash goggles. Synthetic apron. Gloves. Wear MSMA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.

1 Large Spill	e Spill apparatus of equivalent and full protective gear.	
Product Name	Exposure Limits	
TITANIUM DIOXIDE	ACG'H (United States, 19S).	
	TWA: 🖫 r mg/m³ 8 hour(s).	
	OSHA Rnal Rule (United States, 1989 .	
	TWA: 10 mg/m³ 8 hour(s). Form: Total dust	
MICA (mineral)	ACGIH (United States, 1994).	
	TWA: $\frac{1}{3}$ mg/ $\frac{1}{3}$	
	OSHA (United States, 1939). Notes: Respirable	
	TWA: 3 mg/m^3	
	ACGIH (United States, 1994).	
	TWA: 3 mg/ ¹³ 8 hour(s).	
	NIOSH REL (United States, 1994).	
105	TWA: 3 mg/m³ 10 hour(s). Form: Respirable fraction	
	OSHA Final Rule (United States, 1989).	
	TWA: 3 mg/m³ 8 hour(s). Form: Respirable dust	
IRON OXIDE	ACGIH (United States, 19%).	
	TWA: $5 \text{ mg/}^{1/3}$	
	OSHA (United States, 1989). Notes: Total	
	STEL: 10 ppm	
	ACGIH (United States, 1997).	
	TWA: 10 mg/ $^{11/3}$ 8 hour(s).	
	TWA: 5 mg/11 3 8 hour(s). Form: Dust and fumes	
	NiOSH REL (United States, 1994).	

TWA: 5 mg/u³ 10 hour(s). Form: Dust and fumes OSHA Final Rule (United States, 1989).

STEL: 10 ppm 15 minutefs). Form: Total particulates

Section 9. Physical and Chemical Properties		
Odor	Odorless.	
Color	Red-gold	
Physical State and Appearance	Solid. (Red-gold, odorless, lustrous powder)	
Molecular Weight	Mixture.	
Molecular Formula	Not applicable.	
pH	6 to 11 (Cone. '% w/w): 10)	
If citing to cering Point	Not available.	
Specific Gravity	Not applicable.	
Density	Bulk Density 3.1 to 4.1 g/in ³	
Solubility	Insoluble in water.	

Page: 4/6 Fine Saffron Section 10. Stability and Reactivity Stability and Reactivity The product is stable. Not applicable. **Hazardous Decomposition Products Hazardous Polymerization** Will not occur. Section 11. Toxicological information XR2275000 **Titanium Dioxide** RTECS Number: ¥[₿]8760000 Mica (mineral) N07400000 **Iron Oxide** Acute oral toxicity (LD50): >16000 mg/kg [Rat]. **Toxicity** CARCINOGENIC EFFECTS: Classified None by NIOSH [TITANIUM DIOXIDE]. Classified A4 (Not **Chronic Effects on Humans** classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [TITANIUM DIOXIDE]. Classified None by NIOSH [**** OXIDE]. Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human) by IARC [IRON OXIDE], MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. **DEVELOPMENTAL** TOXICITY: Not available. Repeated or prolonged exposure to the substance at concentrations above exposure limits may cause respiratory damage. Target Organs: eyes, lungs, skin. May cause skin, eye and respiratory irritation. Acute Iture on Humans Repeated or prolonged exposure to the substance at concentrations above the exposure limits may cause Sensitization respiratory tract and lung sensitization. This material is not known to cause cancer in animals or humans. Carcinogenic EJTccis Section 12. Ecological information The product itself and its products of degradation are not toxic. Toxicity of me Products of Biodegradation Section 13. Disposal Considerations Non-hazardous waste **EPA Waste Number** Dispose of according to all federal, state and local regulations. **Treatment** Section 14. Transport Information Not regulated. **POT Classification** Not regulated. **TDG Classification** Not regulated. **IMO/OVTDG** Classification Not regulated. ICAO/IATA Classification

S. Federal Regulations

TSCA ((b) inventory: TITANIUM DIOXIDE; MICA (mineral); IRON OXIDE

SARA 3023304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification. No products were found.

SARA 302/304/311/312 hazardous chemicals TITANIUM DIOXIDE; MICA (mineral): IRON OXIDE SARA 311/312 MSDS distribution - chemical inventory - hazard identification: TITANIUM DIOXIDE: Immediate (Acute) Health Hazard; MICA (mineral): Immediate (Acute) Health Hazard; IRON OXIDE:

Immediate (Acute) Health Hazard

SARA 313 toxic chemical notification and release reporting: No products were found.

Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada)

Not controlled under WHMIS (Canada).

CERA DSL: TITANIUM DIOXIDE; MICA (mineral); IRON OXIDE

International Regulations

EINECS

TITANIUM DIOXIDE

236-675-5

MICA (mineral) IRON OXIDE

3101276 215**-**168-2

DSCL (EEC)

S22- Do not breathe dust.

International Lists

Australia (NICNAS): TITANIUM DIOXIDE; MICA: IRON OXIDE

Japan (MITI: TITANIUM DIOXIDE; MICA; IRON OXIDE

Korea (TCCL): TITANIUM DIOXIDE; MICA; IRON OXIDE

Philippines (RA6969): TITANIUM DIOXIDE; MICA; IRON OXIDE

State Regulations

Pennsylvania RTK TITANIUM DIOXIDE: (generic environmental hazard); IRON OXIDE: (generic

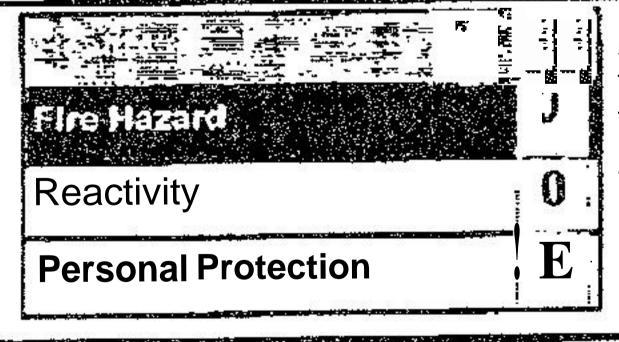
environmental hazard)

Massachusetts RTK; TITANIUM DIOXIDE; MICA (mineral); IRON OXIDE

New Jersey: TITANIUM DIOXIDE; MICA (mineral); IRON OXIDE

Section 16. Other information

Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)

Other Special Considerations Ncjt available.

Changed Since Last Revision

Technical Data Sheet

Fine Saffron

Cosmetic Pigment

INCINAME:	Tits lium Dioxiie (and) Mica (and) Iron Oxides	
APPEARANCE:	Ret -golden † strous powder	
CHEMICAL COMPOSITION:	%	
Ti02 Mica Fe203	42 52.0 36 52.0 6.1 - 12.0	
PARTICLE SIZE: (Laserbeam Diffraction; Malvern 2000)	5.0 – 25.0 (80 % within range) 7.0 – 14.0 prri (D50: median size)	
pH: (U % aqueous dispersion; ISO 787-9)	6.C — 11.0	
LOSS ON DRYING: (105°C; 2 hours; ISO 787-2)	C 5 %	
MICROBIAL PURITY:	To ' Viable Aerobic Count	< 100 CFU/g
	Fe foli Ps iudomonas aeruginosa St phylococc aureus Se monella rtecies Gr im negatives bacteria Cs idida aibiciains	absent in 1 g
HEAVY METALS: (Modified CTFA and internal methods)	As < 2 piim BE < 50 piim Cc < opm Cr < 100 phm Ci < 50 pii Zn < 50 ppm	
ADDITIONAL DATA: The following data is included for information	ional turposes oply and is not part of the produc	t specifications.
BULK DENSITY: OIL ABSORPTION: (ASTM D281-84) SHELF LIFE:	3 4.1 g/ing g pigment 5 'ears	

DATE: 05 - 2018