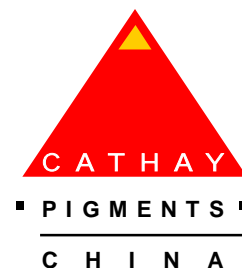


MATERIAL SAFETY DATA SHEET

CATHAY PIGMENTS

SUITE 701-6, NEW MANDARIN PLAZA
TOWER B,
14 SCIENCE MUSEUM ROAD,
TSIMSHATSUI EAST, KOWLOON,
HONG KONG.
TEL: 852-2721-2257



1. PRODUCTION IDENTIFICATION

PRODUCT NAME..... MICRONISED YELLOW IRON OXIDE
PRODUCT CODE..... YA21, YA22, YS21, YS22
COLOUR INDEX NAME..... PIGMENT YELLOW
COLOUR INDEX NUMBER..... 77492
CHEMICAL NAME..... IRON OXIDE
CHEMICAL FORMULA..... FeOOH
CAS NUMBER..... 51274-00-1

2. COMPOSITION/INFORMATION ON INGREDIENTS

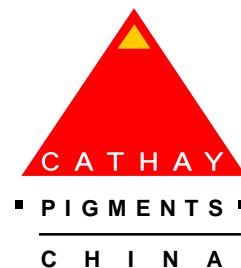
INGREDIENT NAME	CAS#	% BY WEIGHT	EXPOSURE LIMITS
IRON OXIDE as Fe ₂ O ₃	51274-00-1	>86%	ACGIH TLV: 5mg/m ³ TWA
SILICON OXIDE (SiO ₂)	14808-60-7	1.0 (approx.)	OSHA PEL: 10 mg/m ³ TWA
HAZARDOUS IDENTIFICATION:		OSHA PEL	ACGIH TLV
SILICON OXIDE (SiO ₂)		Respirable Dust	Total Dust
		0.1 mg/m ³	0.1 mg/m ³

3. PHYSICAL PROPERTIES AND CHEMICAL PROPERTIES

APPEARANCE..... Solid, Powder
COLOUR..... Yellow
ODOR..... Odorless
PH..... 5 - 8
BOILING POINT..... Not Applicable
MELTING POINT..... Above 1000°C
VAPOR PRESSURE..... Not Applicable
SOLUBILITY IN WATER..... Essentially Insoluble
SPECIFIC GRAVITY..... 3.8-4.1 gm/ml
BULK DENSITY..... 0.3-0.6 gm/ml

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4. FIRST AID MEASURES

IN CASE OF

INHALATION: If inhaled, removed to fresh air. If not breathing, gives artificial respiration. If breathing is difficult, give oxygen

SKIN CONTACT: Immediately wash skin with soap and water

EYE CONTACT: Immediately wash eyes with large amount of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers

INGESTION: Vomiting may be resulted if sufficient quantity is swallowed, seek medical assistance

IN ALL CASE: Consult a physician and wash/discard contaminated clothing after use. Never give anything by mouth to an unconscious person

5. FIRE FIGHTING MEASURES

FLASH POINT..... Not applicable

DECOMPOSITION PRODUCTS..... None

APPROPRIATE EXTINGUISHING MEDIA..... Use appropriate extinguishing media for the combustible material involved in the fire

6. ACCIDENTAL RESEASE MEASURES

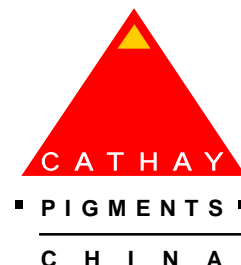
INDIVIDUAL PRECAUTIONS: Collect and seal in properly labeled containers for disposal.

ENVIRONMENT PRECAUTIONS: Disposal should be in accordance with local State or National legislation.

CLEANING METHODS: Vacuum or use wet clean-up techniques and place waste material in closed container.

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7. HANDLING AND STORAGE CONDITIONS

HANDLING: Wear protective clothing. Avoid generating and inhaling dusts. If dust exists, wear approved dust mask and use with local exhaust. Wash thoroughly after handling. Clean/discard protection equipment after use. Do not get in eyes, on clothing. Avoid dust formation.

STORAGE: Store in a dry, cool, ventilated place away from incompatible or dangerous products. Avoid damaging the packing. For general planning purposes allow a maximum storage period of 5 years from date of delivery.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION DATA

RESPIRATORY PROTECTION: Appropriate NIOSH/MSHA (or similar standard) approved respirator

EYES PROTECTION: Safety glasses or face shield

SKIN PROTECTION: Coveralls and rubber boots. Chemical resistant or heavy rubber gloves

9. STABILITY AND REACTIVITY

CONDITION TO AVOID: Material is stable

INCOMPATIBILITIES: Not applicable

DANGEROUS DECOMPOSITION PRODUCTS: Not known

10. TOXICOLOGICAL INFORMATION

CHRONIC EFFECTS OF EXPOSURE: Prolonged inhalation of iron oxide dust is known to produce condition known as siderosis. On X-RAYS it appears to be a benign pneumoconiosis and is not associated with pulmonary fibrosis or disability unless there is concurrent exposure to other fibrosis-producing materials such as Silica. The TLV is set to protect against siderosis

ANIMAL TOXICITY DATA: ORAL LD50 (Rat).....Greater than 5000mg/kg
DERMAL LD50 (Rabbit).....N/D
INHALATION LC50 (Species).....N/D

CARCINOGENICITY: This product is not considered as carcinogen by IARC, NTP, ACGIH or OSHA.