MATERIAL SAFETY DATA SHEET

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Iron Oxides Yellow (ReadyMix™, Oil)

USE DESCRIPTION

Purified colors are colorants manufactured for use in a variety of drug, and cosmetic applications. These products include U.S. Certified Organic Colorants, Purified Inorganic Colorants, and Non-Certified Organic Colorants, and are produced to the highest purity standards possible.

Distributor Emergency Tel 02-002-7-002 (Bangkok, Thailand)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Iron Oxides (CI77492) C.A.S.# 51274-00-1 (40%)
DIISOSTEARYL MALATE C.A.S.# 81230-05-9 (50-60%)
ISOPROPYL TITANIUM TRIISOSTESRATE C.A.S.# 61417-49-0 (1-3%)

This product is not considered to be a hazardous substance as defined under OSHA's Hazard Communication Standard (29 CFR 1910.1200).

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

CAUTION!

When involved in a fire or exposed to high temperatures for an extended period of time, organic pigments may smolder or burn evolving noxious fumes which can include oxides of nitrogen and carbon, or other toxic compounds.

4. FIRST AID MEASURES

EYE CONTACT

Flush eyes thoroughly with large amounts of water for at least fifteen minutes. Get medical attention.

SKIN CONTACT

Wash skin with soap and water. Remove severely contaminated clothing and clean before reuse. Seek medical attention in the unlikely event that irritation occurs.

INHALATION

Remove to fresh air. Get medical attention if breathing is difficult.

INGESTION

Do not give anything by mouth to an unconscious person. Do not induce vomiting. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

Nonflammable organic pigment product.

Extinguishing Media

Carbon dioxide, dry chemical or foam recommended. Apply water spray to cool exposed closed containers.

Special Fire-Fighting Procedures

Self-contained breathing apparatus (SCBA) and full protective equipment recommended.

Unusual Fire and Explosion Hazards

Fire or excessive heat may produce hazardous decomposition products.

General Hazard

Improper handling of any finely divided organic pigment powder may lead to dust cloud formation which may be an explosion hazard.

FLAMMABILITY DATA

Flash Point: Non-flammable material
Flammability Limits: No data
Autoignition Temerature: No data
Dust Cloud Ignition Temperature: No data
Dust Layer Ignition Temperature: No data

NFPA RATINGS HMIS RATINGS
Health: 0 Health: 0
Flammability: 1 Flammability: 1
Reactivity: 0 Reactivity: 0

6. ACCIDENTAL RELEASE MEASURES

Small Spill

For dry powder spills, inert materials such as sand may be added to control dusting prior to cleanup. Industrial grade vacuum sweepers are also recommended. Place spilled material into appropriate waste containers for disposal.

Large Spill

Contain spilled material immediately with an inert substance such as sand or earth. Use plastic or aluminum shovel to transfer diluted waste material into appropriate containers for disposal.

Airborne organic pigment dust may be an explosion hazard. Secure possible sources of ignition and avoid dusting.

7. HANDLING AND STORAGE

Handling

Avoid employee exposure through the use of appropriate engineering controls and good industrial hygiene practices.

Storage

Store in a moderately cool, dry, well-ventilated area away from direct sources of heat. Empty containers may contain product residues and should be handled appropriately. Position containers so that any labelling information is visible.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

The use of local exhaust ventilation is recommended.

Personal Protection

NIOSH approved dust respirators are recommended when handling in areas of pigment dusting. Safety glasses are also recommended. Impervious clothing should be worn when gross contact is likely, such as when cleaning up spills of large amounts.

Exposure Limits

There are no ACGIH TLV's or OSHA PEL's established for this product. The OSHA PEL for nuisance dust is 15 mg/m3 (total dust), and 5 mg/m3 (respirable dust) recommended. The recommended ACGIH TLV for nuisance dust is 10 mg/m3.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Finely divided powder
MELTING POINT: No data
SOLUBILITY: Insoluble
PERCENT VOLATILE: None
VAPOR PRESSURE: Not applicable
BOILING POINT: No data
VOLATILE ORGANIC COMPOUNDS (VOC's): None

10. STABILITY AND REACTIVITY

GENERAL:

This product is a stable compound and hazardous polymerization will not occur.

INCOMPATABILITY:

Avoid strong oxidizing agents such as peroxides, chlorates, perchlorates, nitrates, and permanganates. Oxidizing materials may vigorously evolve oxygen in large amounts.

HAZARDOUS DECOMPOSITION PRODUCTS:

When involved in a fire, burning organic pigments may evolve noxious gases which are toxic. These compounds may include carbon monoxide, carbon dioxide, nitrous oxides, or hydrogen chloride, depending on the pigment type.

11. TOXICOLOGICAL INFORMATION

GENERAL

GENERAL

Based upon industry-wide experience over many years of manufacturing and published toxicological studies, cosmetic pigments in general are considered to have low levels of toxicity. There is no evidence of harmful effects from available information.

There are no established permissible exposure limits for this product. We have not performed any animal testing on this material in the last 5 years.

ACUTE (SHORT-TERM) TOXICITY

Skin contact: Irritation not expected. No evidence of harmful effects from available information.

Eye contact: Irritation not expected. High dust concentrations may cause mechanical irritation, as is typical with any finely divided powder.

Inhalation: Not expected to be an inhalation hazard. Excessive levels of dusts may result in discomfort after repeated or prolonged exposures.

Ingestion: No adverse effects known, and is believed to be practically non-toxic by ingestion. Based upon data from similar products, the acute oral LD_{50} value is expected to be greater than 2,000 mg/kg.

CHRONIC (LONG-TERM) TOXICITY

No known published data available and no adverse effects expected.

MUTAGENICITY

No mutagenic effects known or expected.

12. ECOLOGICAL INFORMATION

This product has not been evaluated for its ecotoxicity. However, the biodegredation of organic colorants under aerobic conditions is expected to be poor and there is no evidence to suggest they create any significant ecological problems when released into the environment. Since organic pigments are generally insoluble compounds, they are believed to have minimal bioaccumulation and bioavailablity characteristics.

13. DISPOSAL CONSIDERATIONS

General

This product must be disposed of in accordance with all applicable federal, state and local regulations.

Waste Management

. Incineration or landfilling are recommended disposal techniques. Contact the state or local environmental agency for specific rules.

. This product is not identified as a RCRA hazardous waste under 40 CFR 261, and is not regulated under CERCLA (Superfund).

14. TRANSPORT INFORMATION

D.O.T. SHIPPING NAME (49 CFR 172.101-102)....: Not regulated

D.O.T. HAZARD CLASS (49 CFR 172.101-102).....: None

D.O.T. LABEL.....: None

D.O.T. PLACARD.....: None

BILL OF LADING DESCRIPTION.....: Pigments NOI Dry
CERCLA SUBSTANCE (49 CFR).....: Not regulated
REPORTABLE QUANTITY (RQ).....: None

INTERNATIONAL

UN/NA NUMBER.....: Not regulated
IMDG/IACO CLASSIFICATION.....: Not regulated
IATA CLASSIFICATION.....: Not regulated

15. REGULATORY INFORMATION

OSHA Hazard Communication Standard Status

This product is not considered to be a hazardous substance under OSHA's Federal Hazard Communication Standard 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA) Status

All of the ingredients of this material have been reported to the U.S. EPA and are included in the TSCA chemical inventory.

15. REGULATORY INFORMATION (Continued)

SARA Title III

Section 302 (EHS).....: NONE
Section 311/312 (Acute).....: NONE

RCRA

Not regulated as a hazardous waste under RCRA.

16. OTHER INFORMATION

For more information contact care@chanjao.com