

INORGANIC PIGMENTS

Safety Data Sheet

IDENTIFICATION

Commodity/
Product Name : CHROME YELLOW PIGMENTS
Uses : Used widely for Surface Coatings, Inks, Plastics, Rubber, Leather, Ceramics, Water Colors, Printing Fabrics, Decorating Porcelain, Paper and Linoleum Industries to impart color.
Supplier : TNC Chemicals Philippines Incorporated
Km 56 Brgy Turbina, Calamba City, Laguna
Tel No. (049) 545-55-24

HAZARD CLASSIFICATION

Precautionary
Statement : Harmful if swallowed
Do not get in eyes, skin, clothing.
Avoid breathing dust.
Keep away from food products.
keep in tightly closed container
Use with adequate ventilation
Wash thoroughly after handling
Working clothes should not be brought home
For industrial use only

COMPOSITION / INFORMATION ON INGREDIENTS

Chrome Yellow Pigments
Common Name : Chrome Yellow
Chemical Type : Co-precipitate of Lead Chromate and Lead Sulfate
CAS Number : 7758-97-6
Color Index No. : 77600
Pigment No. : Yellow-34

FIRST AID MEASURES

If swallowed, and conscious, immediately induce vomiting.
If inhaled, remove to fresh air.
If not breathing, give artificial respiration
If breathing is difficult, give oxygen.
In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes, making certain that all traces of materials / residue are gone. Should redness or an irritation develop or persists call for medical attention or consult a physician immediately.

FIRE FIGHTING MEASURES

Fire Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

Unusual Fire & Explosion Hazards

Lead Chromate in the presence of organic compounds at elevated temperatures can fire/ explosion hazards.

ACCIDENTAL RELEASE MEASURES

Steps to be taken in the event of a spill or discharge

Restrict work area to those persons wearing protective clothing and equipment.

Do not sweep spill, vacuum and placed the pigment in a clean, dry container.

Collect spilled material in manner which will not create more dust.

Contain large spills with an inert ingredient such as sand or earth.

HANDLING AND STORAGE

Keep the material in a cool, clean, dry and ventilated area for storage

Keep the material away from heat, fire and water.

Keep away from food, beverages and tobacco products.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

ACGIH: Threshold limit value as 8-hour time weighted average (TWA)

Lead Chromate : 0.05 mg/m³

Exposure Indices

Blood lead levels: Most important epidemiological tool

Level of concern for children : 10 µg/dl

Level of concern for occupational workers: 40-50 µg/dl

Personal Protection

Protective Equipments includes:

Coveralls, full body work clothing, gloves, hard hats, Safety shoes, rubber boots, disposable coverlets, face shields, respirators, eye goggles.

Workplace Management

Clean, launder or dispose of contaminated protective clothing

Repair or replace torn or defective clothing or equipment

Ensure all protective clothing is removed at the end of the work shift in change areas provided for that purpose

Clean change areas, hand washing, and shower facilities

(If no showers, workers must wash their hands and face at the end of work shift.)

All contaminated protective clothing and equipment to be cleaned, laundered or disposed must be placed in a closed container in the change area to prevent dispersion of lead outside the container.

Blowing, shaking, or otherwise dispersing lead into the air is prohibited for removing lead from contaminated areas.

Lunch room facilities or eating area free of lead contamination.

Workers should be informed that the lead contamination of home and other family members may occur if workplace clothes, protective equipment and tools are brought home.

Food, beverages, tobacco products (cigarettes), and cosmetics are prohibited in all areas where workers are exposed to lead.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Properties

Appearance : Light Yellow to Dark Yellow powder

Odor : Odorless

pH : 6-8 (10% solution)

Organic Colors & Lakes : None

Oil Absorbtion : 24 ± 4 %

Moisture & other

Volatile Matter : 1.0 % max.

Total Matter Soluble

In Water : 1.0 % max.

Solubility : Soluble in most Solvents

: Insoluble in Water

Physical Attribute : Non-bleaching, high opacity and superior lightfastness.

Excellent heat and solvent bleed resistance

Chemical Properties : Lead Chromate and Lead Molybdate are soluble in nitric acid and are insoluble in acetic acid.

It is incompatible with iron hexacyanoferrate.

When heated to decomposition, it emits toxic lead fumes.

STABILITY AND REACTIVITY

Chemical Stability : Stable

Conditions to avoid : Heat

It is flammable with combustible organic or other oxidizable materials.

TOXICOLOGICAL INFORMATION

Carcinogenicity

Chromium and certain chromium compounds (hexavalent) are listed in NTP, IARC and ACGIH

as known Human Carinogens.

Health Hazard

Effects of overexposure:

Exposure to lead chromate affects the upper respiratory tract, including ulceration of the nasal septum, chronic rhinitis and pharyngitis. Also cause dermatitis.

Biological effects of lead includes encephalopathy, malaise, forgetfulness, irritability, lethargy, impaired concentration, depression and mood changes, increased nervousness, paresthesias and wrist drop.

Target Organs:

Chromium is readily absorbed from the respiratory and gastrointestinal tracts.

Can cause adverse effects on the skin, respiratory tract and kidneys

Can pass through the placental barrier producing fetal abnormalities, intrauterine growth retardation, skeletal deformities and cleft palate in rat studies.

Route of Exposure:

Primary routes of human exposure are inhalation, ingestion and dermal & eye contact.

ECOLOGICAL INFORMATION

No available information

DISPOSAL CONSIDERATIONS

Disposal Procedure

Dispose in accordance with all applicable federal, state, and local environmental regulations.

REGULATORY INFORMATION

This material is regulated only for industrial use where adequate ventilation is required.

Chrome yellow is considered to be very hazardous substance according to OSHA.

OTHER INFORMATION

All information presented in this safety data sheet is given in good faith and is based upon sources and tests considered to be reliable but they can not be guaranteed. It is the user's full responsibility to accept risk for the safety, handling, storage, use and toxicity of this product, as well as to determine the suitability of the product for a specific purpose. Therefore all risks must be assumed by the user.

No warranties are expressed or implied on the accuracy of the information. TNC Chemicals Philippines Incorporated, Pigment Division assumes no legal responsibility for use or reliance upon these data.

Revision Date : October 2008