

# MATERIAL SAFETY DATA SHEET

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## 1. Identification of the substance/preparation

Color index name: pigment orange 21

Chemical family and composition: lead chromate orange  $\text{PbO}\cdot\text{PbCrO}_4$

Color index number: 77601

Product name: Orange chrome yellow

Application: colorants (pigments and dyestuffs), inorganic

## 2. Composition/information on ingredients

lead chromate orange  $\text{PbO}\cdot\text{PbCrO}_4$  CAS No.: 1344-37-2

## 3. Hazard identification

May cause harm to the unborn child.

Possible risk of impaired fertility.

Danger of cumulative effects.

Limited evidence of a carcinogenic effect.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 4. First-aid measures

General advice: Remove contaminated clothing.

If inhaled: if difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

Skin contact: Cleansing with plenty of water, soap or other non-irritating cleansing agents.

Eye contact: Contamination of the eyes must be treated by thorough irrigation with water, with the eyelids held open. Eventually a doctor (or eye specialist) should be consulted.

Swallowing: If product is swallowed, make the patient drink water. Wash out mouth repeatedly. If the patient feels unwell, seek medical advice.

Note to physician:

Treatment: Treat according to symptoms(decontamination, vital functions), no known specific antidote. The presence of lead in the body can be detected by determining the amount of this substance in the blood and/or urine.

## 5. Fire-fighting measures

Suitable extinguishing media: water spray, dry extinguishing media, foam, carbon dioxide.

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Specific hazards: Lead monoxide, harmful vapours. Evolution of fumes/fog. The substance/group of substance mentioned can be released in case of fire.  
Specific protective equipment: Wear a self-contained breathing apparatus.  
Further information: The degree of risk is governed by the burning substance and fire conditions.  
Contaminated extinguishing water must be disposed of in accordance with official regulations.

## **6. Accidental release measures**

Personal precautions: Avoid dust formation. Use personal protective clothing.  
Environment precautions: Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.  
Methods for cleaning up or taking up:  
For small amounts: Pick up with suitable appliance and dispose of.  
For large amounts: Contain with dust binding material and dispose of. Avoid raising dust.

## **7. Handling and storage**

Handling: Processing machines must be fitted with local exhaust ventilation. Breathing must be protected when large quantities are decanted without local exhaust ventilation.  
Protection against fire and explosion: Avoid dust formation. Substance/product can lower the ignition temperature of flammable substance.  
Storage: Further information on storage conditions: Keep container tightly closed.

## **8. Exposure controls/Personal protection**

Wear suitable protective clothing, protective goggles, and ,if necessary, dust mask during work.  
Chemical-resistant protective gloves according to DIN/EN 374 are recommended.  
Do not breathe dust. Avoid contact with eyes and skin. Keep away from food and drink stuffs.  
Do not eat, drink or smoke at work. Wash hands before breaks and at end of work and use skin-protecting ointment.

## **9. Physical and chemical properties**

Form: powder  
Color: The color is derived from the trade name.  
Odour: odourless  
Vapour pressure: dropped  
Density: approx. 6.6 g/cm<sup>3</sup> at 20 °C  
Solubility in water: insoluble

## **10. Stability and reactivity**

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.  
Hazardous reactions: No hazardous reactions observed.

## **11. Toxicological information**

Acute oral toxicity (LD50): above 5.000 mg/kg  
Primary skin irritation/rabbit: non-irritant

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Primary irritations of the mucous membrane/rabbit: non-irritant

## 12. Ecological information

Ecotoxicity:

Toxicity to fish: *Leuciscus idus*/No observed effect concentration (96h): 10.000 mg/l.

*Leuciscus idus*/LC50(96h):> 10.000 mg/l.

Aquatic invertebrates: *Daphnia magna*/EC50(48h): >100 mg/l

Aquatic plants: *Scenedesmus subspicatus*/EC50(72h): > 100 mg/l

Persistence and degradability:

Assessment: The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants. Heavy metals eliminated from water by chemical flocculation.

Bioaccumulation potential: The product contains heavy metals. Prevent release into the environment. Special pretreatment required.

Other adverse effects: The product contains: lead, Chromium (VI).

## 13. Disposal considerations

Must be dumped or incinerated in accordance with local regulations.

Contaminated packaging: Uncontaminated packs can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

## 14. Transport information

Not classified as hazardous under transport regulations (ADR RID ADNR IMDG/GGV See ICAO/IATA)

Further information:

No dangerous good of class 6.1(ADR/RID/ADNR/IMDG/ IATA): acid soluble lead content <5%

No dangerous good of class 9(ADR/RID/ADNR/IMDG/ IATA): see ecological data in chapter 12.

## 15. Regulatory information

Substances when cause concern for man owing to possible carcinogenic effects but in respect of which the information available is not sufficient to make a satisfactory assessment.

Hazard determinant components for labeling: LEADSULFOCHROMATE YELLOW only for professional users.

## 16. Other information

All components of this product are listed in the European Inventory of Existing Commercial Substances (EINECS) under the provisions laid down in the corresponding EC-Directive.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance.