

MATERIAL SAFETY DATA SHEET

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IDENTIFICATION

Name KROLOR® Orange Pigments (KO-786-D, KO-789-D, KO-906-D, KO-909-D)

Synonyms Silica Coated Lead Chromate
Molybdate (see attached list for codes)

Chemical Family Same

CAS Name

CAS Registry No.

I.D. Nos./Codes

CHEMICAL FORMULA: $\text{PbMoO}_4/\text{PbCrO}_4/\text{PbSO}_4/\text{SiO}_2$

Manufacturer/Distributor

E.I. DU PONT DE NEMOURS & CO., INC.

Product Information and Emergency Phone

302-774-2421

Address WILMINGTON, DE 19898

Transportation Emergency Phone

800-424-9300

HAZARDOUS COMPONENTS

Material(s) (see attached)

Approximate %

Can you add attention to sheet?

PHYSICAL DATA

Boiling Point, 760 mm Hg

Melting Point

Specific Gravity 5.8-6.1

Vapor Pressure

Vapor Density

Solubility in H_2O Negligible

% Volatiles by Vol.

Evaporation Rate (Butyl Acetate = 1)

Form Solid

Appearance Powder

Color Orange

Odor

Odorless

pH Information

Octanol/Water Partition Coefficient

FIRE AND EXPLOSION DATA

Flash Point

Method

Autoignition Temperature

Will not burn

Flammable Limits in Air, % by Vol.

Lower

Upper

Fire and Explosion Hazards May ignite if heated in presence of combustible materials

Extinguishing Media Carbon Dioxide (CO_2)

Special Fire Fighting Instructions

HAZARDOUS REACTIVITY

- Instability** May ignite in presence of heat and combustible materials
- Incompatibility**
- Decomposition** Products - oxides of lead and chromium
- Polymerization** Will not occur

HEALTH HAZARD INFORMATION

Exposure Limits OSHA 8-hour time weighted average (TWA)-50 μg or $0.05\text{mg}/\text{m}^3$ (as Pb); $0.5\text{mg}/\text{m}^3$ (as Cr). ACGIH TLV®-TWA- $0.05\text{mg}/\text{m}^3$ (as Cr); ACGIH paragraph A2 Carcinogen (for PbCrO_4). (Industrial Substances Suspect of Carcinogenic Potential for Man).

Routes of Exposure and Effects May be harmful if inhaled or ingested. May result in toxic levels of lead in the body. See 29 CFR 1910.1025, Lead. Long term overexposure may cause cancer.

First Aid If inhaled, remove to fresh air.
See 29 CFR 1910.1025 (j) for medical compliance requirements in cases of exposure above permissible exposure limit for lead compounds.

PROTECTION INFORMATION

- Ventilation** See OSHA Standard 29 CFR 1910.1025
- Personal Protective Equipment** See OSHA Standard 29 CFR 1910.1025 for appropriate respirators.
- Other** Dust goggles, Any kind of gloves, coveralls, hat, shoe coverlets. See OSHA Standard 29 CFR 1910.1025.

DISPOSAL PROCEDURES

- Aquatic Toxicity**
- Spill, Leak or Release** Avoid breathing dust; use protective equipment described above.
Vacuum and place in closed container.
- Waste Disposal** As provided under Resource Conservation & Recovery Act, and in accordance with other Federal, State and local regulations.

SHIPPING PRECAUTIONS

- Transportation** DOT Hazards Classification: Not Regulated
- Shipping Containers** Bags and leverpacks
- Storage Conditions** Store in clean, dry area. Keep away from food products.

REFERENCES AND ADDITIONAL INFORMATION

Avoid breathing dust.
Wash thoroughly after handling, and before eating, smoking, applying cosmetics.

- Delete as indicated
RPT

DATE: 5/5/80

LPT:ims

E-

DUP050075091

TYPICAL ANALYSIS

	<u>Total Lead</u> <u>(as Pb)</u>	<u>Total Chromium</u> <u>(as Cr)</u>
KROLOR® Orange R KO-786-D	46.8%	10.1%
KROLOR® Orange Y KO-789-D	45.4%	9.3%
KROLOR® Orange RLD KO-906-D	39.8%	8.4%
KROLOR® Orange YLD KO-909-D	40.7%	8.5%

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