E. I. du Pont de Nemours & Company
INCORPORATED
Wilmington, Delaware 19898

CHEMICALS AND PIGMENTS DEPARTMENT

October 24, 1980

MATERIAL SAFETY DATA SHEETS

Enclosed are new Material Safety Data sheets (MSDS) for the products listed below:

New Stock No.	Title	Replaces Stock No.
E-36223	p-Nitrophenol, Tech.	New
E-36225	Monastral® Golds YT-815-D & YT-823-D	New
E-37105	o-Toluidine (Tech. & S2 Tech. Grades)	New
E-37106	1,4-Butanediol	E-13306
E-37108	Quinacridone Red & Violet Pigments	New
E-37109	Toluidines Mixed	New
E-37115	Potassium Silicate Solutions	E-20072
E-37118	Dalamar® Yellow Pigments	New
E-37122	BON Red RT-565-D & RT-695-D	New
E-37123	Green-Gold YT-562-D & YT-714-D	New
E-37124	GBS® Globular Sodium Bisulfate, Tech.	E-13325
E-37125	Krolor® Red KR-980-D & KR-981-D	New
E-37357	Krolor® Orange Pigments	New
E-37359	Oxone® Monopersulfate Comp'd.	E-11261
E-37367	Nitrosylsulfuric Acid, Tech.	E-13305
E-37368	Hydroxyacetic Acid, 70% Solution	E-18973
E-37371	Tetrahydrofuran	E-34823

Please discard all copies of the obsolete MSDS's.

Additional copies are available through Du Pont's Marketing Communications Department, Nemours 2468, Wilmington, Delaware 19898.

R. U. Tobar

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Enclosures

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GRAPHIC COMMUNICATIONS DIVISION

MAILING LIST COUNTS

DAILY NO-18 GC-866668

BINDERY DATE 10/24/80

ENCLOSURE NO 01 MLG 17 MSDS

LIST NO.	MAILING COUNT	RECORD COUNT	U.S.	CAN.	FOR.	MESS.	BUD.	BULK	BULK QTY	PAGE-LINE
1180	26	26	0	0	19	2	5	0	0	18/01
	26	26	0	0	19	2	5	0	0**	

N42334.01

DU PONT

MATERIAL SAFETY DATA SHEET

IDENTIFICATION

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

Synonyms
Silica Coated Lead Chromate

CAS Name

I.D. Nos./Codes

Chemical Family
Same

CAS Registry No.
Chemical Formula: $PbMoO_4/PbCrO_4/PbSO_4/ SiO_2$

Manufacturer/Distributor
E. I. du Pont de Nemours & Co. (Inc.)

Address
Wilmington, DE 19898

Product Information and Emergency Phone
(302) 774-2421

Transportation Emergency Phone
(800) 424-9300

HAZARDOUS COMPONENTS

Material(s)	Approximate % Total Lead (as Pb)	Approximate % Total Chromium (as Cr)
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

PHYSICAL DATA

Boiling Point, 760mm Hg:

Melting Point

Vapor Pressure

Specific Gravity:
5.8-6.1

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
Will not Burn

Method

Autoignition Temperature

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

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The information set forth herein is furnished free of charge and is based on technical data that Du Pont believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents.

HAZARDOUS REACTIVITY

Instability
May ignite in presence of heat and combustible materials

Incompatibility

Decomposition
Products - oxide of lead and chromium

Polymerization
Will not occur

HEALTH HAZARD INFORMATION

Exposure Limits OSHA 8-hour time weighted average (TWA)-50 µg or 0.05mg/m^3 (as Pb); 0.5mg/m^3 (as Cr). ACGIH TLV®-TWA-0.05 mg/m^3 (as Cr); ACHIH 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 permissable 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 fiber drums

Storage Conditions
Store in clean, dry area. Keep away from food products.

REFERENCES AND ADDITIONAL INFORMATION

Avoid breathing dust.
Wash thoroughly after handling.

DATE:
7/80

E- 37357

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