

E. I. DU PONT DE NEMOURS & COMPANY

WILMINGTON, DELAWARE 19898

CHEMICALS, DYES AND PIGMENTS DEPARTMENT

CD&PD
Brandywine

R. A. Darby
J. Bugosh
L. N. Fisher
R. J. Buch
W. H. Darnell (2)
R. N. Selby
W. F. Stafford

CD&PD
Field

District Managers &
Field Sales
Representatives
Covered By Direct
Mail

Haskell
Laboratory

R. W. Morrow
A. M. Kaplan
J. J. Pawelski (2)

CD&PD Foreign

G. T. Darrer-
DISA Geneva (10)
R. Buckland- (10)
DUCAN Mississauga

Special Interests

(Covered Under
Separate Mailing)

CD&PD
Brandywine

R. Aarons
S. F. West
R. U. Tobar
F. B. Maloney (11)
R. P. Rogers
N. Goodman
H. L. Rice
A. A. Clark

ISD (Centre Road)

L. E. Rasmussen
for Health &
Safety File

CD&PD
Chestnut Run

E. W. Stewart
C. H. Muendel
E. R. Everingham (30)
J. C. Watts
L. P. Thomas
M. D. Jacobs
E. W. Griffin
H. R. Geyer
N. J. Hunt

Legal

R. F. Hedgepath
J. J. Trexel

CD&PD
Chambers Works, GAL

D. Putman (20)

Marketing
Communications

R. E. Hutter

Public Affairs

L. C. Skaggs

CD&PD
Experimental Station

M. A. Naylor
Information Center

CD&PD
Jackson Laboratory

R. N. Dion

Technical
Library

Trade Literature File

CD&PD Major Plants

R&D Technical Superintendents
S.H.E. Superintendents
Production Superintendents
Control Superintendents
W. W. Wolk, Memphis Plant
R. C. Monson (PPD),
Wurtland Plant

CD&PD Unit Plants

Plant Managers



E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED

WILMINGTON, DELAWARE 19898

CHEMICALS, DYES AND PIGMENTS DEPARTMENT

March 21, 1980

MATERIAL SAFETY DATA SHEETS

Enclosed are new Material Safety Data Sheets (MSDS) for the products listed below.

<u>New Stock No.</u>	<u>Title</u>	<u>Replaces Stock No.</u>
E-31167	*Aluminium Chloride, C&R Grades	E-21979
E-33731	Monastral® Blue Pigments	New
E-33732	Sulfur Trioxide	E-20061
E-33733	*Potassium Cyanide	E-05156
E-33734	Phthalocyanine Blue Pigments	New
E-33735	Nitric Acid, Strong, Tech.	E-13312
E-33736	*Ammonium Sulfamate	E-18956
E-33737	*Nitric Acid, Weak, Reagent Grades	E-18959
E-33738	Molybdate Orange or Red Pigment	New
E-33739	Phthalocyanine Blue Presscakes	New
E-33740	Krolor® Yellow, Chrome Yellow	New

Please discard all copies of the obsolete MSDS's. Additional copies can be ordered in the same manner as for other Marketing Communications CD&PD literature.

Copies of MSDS's for those (*) products will be mailed to authorized distributors in about two weeks.

J. C. Watts

JCW:cw
Enclosures

DUP050074630

N42317.01

MATERIAL SAFETY DATA SHEET

Page 1 of 3

IDENTIFICATION

Name KROLOR® Yellow, Chrome Yellow
(See attached list of codes)

Synonyms KROLOR® = Silica coated lead chromate, Chrome Yellow = lead chromate-lead sulfate, C.I. Pigment Yellow 34
CAS Name

Chemical Family
Lead Chromate
CAS Registry No.

I.D. Nos./Codes

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)
Lead and Chromate
(See attached page 3, for typical analysis.)

Approximate %

PHYSICAL DATA

Boiling Point, 760 mm Hg

Melting Point

Specific Gravity

Vapor Pressure

3.0-5.7

Vapor Density

Solubility in H₂O

% Volatiles by Vol.

Negligible
Evaporation Rate (Butyl Acetate = 1)

Form
Solid
pH Information

Appearance
Powder

Color
Yellow
Odor
Odorless
Octanol/Water Partition Coefficient

FIRE AND EXPLOSION DATA

Flash Point **Method**

Autoignition Temperature

Flammable Limits in Air, % by Vol.

Lower **Upper**

Fire and Explosion Hazards

Oxidizer - contact with organic matter in presence of heat can cause fire.

Extinguishing Media

Water

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

Page 2 of 3

Instability

Incompatibility

May ignite in presence of heat and combustible matter.

Decomposition

Lead and chromium oxides formed following ignition.

Polymerization

Will not occur.

HEALTH HAZARD INFORMATION

Exposure Limits OSHA 8-hour Time Weighted Average (TWA) = 50µg or 0.05 mg/m³ (as Pb); ACGIH TLV® = 0.05 mg/m³ (as Cr), ACGIH paragraph A2 Carcinogen (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 body.

See 29 CFR 1910.1025, Lead.

Long term overexposure to lead chromate may cause cancer.

First Aid: If inhaled, remove to fresh air. See 29 CFR 1910.1025 (j) for medical 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 See OSHA Standard 29 CFR 1910.1025. Dust goggles, coveralls, hat, shoe coverlets, gloves (any kind).

DISPOSAL PROCEDURES

Aquatic Toxicity

Spill, Leak or Release Avoid breathing dust; use protective equipment described above.

Vacuum and return to container.

Waste Disposal As provided under Resource Conservation & Recovery Act and in accordance with other Federal, State and local regulations.

SHIPPING PRECAUTIONS

Transportation

Not regulated as a hazardous material by DOT.

Shipping Containers

Bags

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.

DATE: 2/80



KROLOR® YELLOW, CHROME YELLOW MATERIAL SAFETY DATA SHEET ATTACHMENTTYPICAL ANALYSIS

<u>Krolor® Yellows</u>	<u>Lead (as Pb)</u>	<u>Chromium (as Cr)</u>
KROLOR® Yellow Light KY-781-D	45.8%	8.3%
KROLOR® Yellow Medium KY-787-D	41.1%	9.8%
KROLOR® Yellow Light KY-788-D	44.4%	7.9%
KROLOR® Primrose KY-790-D	43.3%	7.3%
KROLOR® Yellow Medium KY-795-D	45.9%	10.8%
KROLOR® Yellow Medium LD KY-907-D	40.0%	9.6%
KROLOR® Yellow Light LD KY-908-D	44.1%	8.1%
KROLOR® Primrose LD KY-910-D	42.0%	7.2%
<u>Chrome Yellows</u>		
Chrome Yellow Light Y-433-D	61.0%	10.2%
Chrome Yellow Light Y-434-D	60.1%	11.4%
Chrome Yellow Medium Y-469-D	59.8%	14.0%
Chrome Primrose Yellow Y-758-D	61.3%	10.6%

DATE: 2/80

E-33740

DUP050074633