



E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED

WILMINGTON, DELAWARE 19898

CHEMICALS AND PIGMENTS DEPARTMENT

October 28, 1981

TO: C&PD INTERNAL MAILING LIST 1021

MATERIAL SAFETY DATA SHEETS

New Material Safety Data Sheets (MSDS's) for the products listed below are now available. Attached are copies of interest to you. Additional copies are available through Marketing Communications Department. Please destroy your obsolete stock.

New Stock No.	Title	Replaces Stock No.
E-40316	*Ti-Pure® R-100, R-101, R-900, R-901, R-902, R-994 & LW	New
E-40319	Course Staurolite Starblast® & Biasill®	E-40314
E-40320	*Potassium Silicate Solutions (All grades)	E-37115
E-40321	*Sodium Silicate Solutions (All grades)	E-21992
E-40322	*Copper Plating AA510 & AA1396	E-37363
E-40323	Halogen Tin AA20 & BH20	E-34820
E-40324	*Duozinc® Brighteners & Alk. Zinc Plating Add.	E-37353
E-40325	*1,4-Butanediol	E-37106
E-44451	*Master Catalyst BK	New
E-44452	*Ludox® Colloidal Silica (All grades)	E-40313
E-44453	*Formaldehyde Solutions	E-21989
E-44454	*Ludox® Indicator Solution	E-38302
E-44455	Monastral® Green Pigments (GT-674-D, GT-751-D, GT-829-D, GT-805-D & GT-860-D)	New
E-44456	Monastral® Green G Dispersion GW-951-P	New
E-44457	*Volan® Bonding Agents (Volan® & Volan® L)	E-34819
E-44458	*Ammonium Thiosulfate, 60% Solution	E-33730
E-44459	*Quilon® Chromium Complexes	E-34807

In approximately two weeks, authorized distributors of those products (*) will be mailed copies of MSDS's.

J. C. Watts

J. C. WATTS

JCW:cg
Enclosures

MATERIAL SAFETY DATA SHEET

IDENTIFICATION

Name Monstral® Green Pigments

Grade GT-674-D, GT-751-D, GT-829-D
GT-805-D, GT-860-D

Synonyms

See Page 4

CAS Name

I.D. Nos./Codes

Manufacturer/Distributor

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

Address

Wilmington, DE 19898

Chemical Family

Halogenated Copper Phthalocyanines

Formula

CAS Registry No.

Du Pont Registry No.

Product Information and Emergency Phone

(302) 774-2421

Transportation Emergency Phone

(800) 424-9300

PHYSICAL DATA

Boiling Point, 760 mm Hg

Not Applicable

Specific Gravity

2.1 to 2.9 see page 4.

Vapor Density

Not Volatile

% Volatiles by Vol.

Less than 1%

Form

Solid

Appearance

Powder

pH Information

See page 4. 2% Aqueous Extract 6.4 to 8.0

Melting Point

>250°C (482°F) (Decomposes)

Vapor Pressure

Not Volatile

Solubility in H₂O

Insoluble

Evaporation Rate (Butyl Acetate = 1)

Not Volatile

Color

Green

Odor

None

Octanol/Water Partition Coefficient

HAZARDOUS COMPONENTS

Material(s)

Approximate %

HAZARDOUS REACTIVITY

Instability

Stable; emit noxious fumes when subjected to great heat.

Incompatibility

None known

Decomposition

Will not occur (except at high temperatures).

Polymerization

Will not occur.

E- 44455

Date: 8/81

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.

FIRE AND EXPLOSION DATA

Flash Point

Method

Autoignition Temperature

Not Applicable

Flammable Limits in Air, % by Vol.

Lower

Upper

Fire and Explosion Hazards

GT-674-D, GT-751-D, GT-805-D, GT-829-D, and GT-860-D burn with smoldering fire; not easily ignited.

Extinguishing Media

Carbon dioxide (CO₂).

Special Fire Fighting Instructions

Place in metal drum, add CO₂, and cover loosely.

HEALTH HAZARD INFORMATION

Exposure Limits

Monastral® green pigments are not specifically regulated as hazardous or toxic substances by OSHA. Limits for nuisance dusts are: OSHA 8-hour Time Weighted Average (TWA) = 15 mg/m³ total dust, 5 mg/m³ respirable dust; ACGIH TLV®-TWA is 10 mg/m³ total dust, 5 mg/m³ respirable dust. Du Pont has elected to observe the ACGIH limits when handling Monastral® green pigments.

Significant Routes and Effects of Exposure

No known health hazard.

Safety Precautions

Avoid breathing dusts.

Wash thoroughly after handling.

First Aid

PROTECTION INFORMATION

Ventilation

Good general ventilation should be provided to keep dust concentrations below the nuisance dust exposure limits.

Personal Protective Equipment

Chemical cartridge respirator with dust filter if nuisance dust limits are exceeded.

Other

DISPOSAL INFORMATION

Aquatic Toxicity

Spill, Leak or Release

Sweep up spillage.

Waste Disposal

Comply with Federal, State and local regulations. If approved, may be transformed to land disposal area.

SHIPPING INFORMATION

Transportation

DOT Hazard Class:*

Not regulated as hazardous material by DOT.

DOT Shipping Name:*

Not regulated

RQ Quantity:*

*49 CFR 172.101

Shipping Containers

Bags and drums

Storage Conditions

Protect packages from breakage.

IMCO Class.:

UN No.:

NA No.:

ADDITIONAL INFORMATION AND REFERENCES

Physical Properties (Continued from Page 1)

<u>Name</u>	<u>Code</u>	<u>C. I. Pigment No.</u>	<u>Specific Gravity</u>	<u>pH *</u>	<u>% Moisture</u>
Monastral®					
Green B	GT-674-D	Green 7	2.1	6.8	<1
Green G	GT-751-D	Green 7	2.3	7.0	<1
Green Y	GT-805-D	Green 36	2.9	6.8-8.0	<1
Green G	GT-829-D	Green 7	2.15	6.4-6.8	<1
Green Y	GT-860-D	Green 36	2.9	7.0	<1

*pH of 2% Aqueous Extract

GC 315E (MADE IN U.S.A.)

E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED
WILMINGTON, DELAWARE 19898



You and Du Pont.
There's a lot of good chemistry
between us.

DUP050071307