



The MSDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

DuPont  
Material Safety Data Sheet

Page 1

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 INK FOR "CROMALIN" LARGO  
 P0000269 Revised 19-FEB-2006  
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 CHEMICAL PRODUCT/COMPANY IDENTIFICATION  
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Material Identification

Cromalin is a registered trademark of DuPont.

Tradenames and Synonyms (Remarks)

The MSDS is applicable to the following products:  
 DUP2406Y (110ml) and DUP4406Y (330ml) Yellow Printer Ink  
 DUP2406C (110ml) and DUP4406C (330ml) Cyan Printer Ink  
 DUP2406M (110ml) and DUP4406M (330ml) Magenta Printer Ink  
 DUP2406BK (110ml) and DUP4406BK (330ml) Black Printer Ink  
 DUP2406PC (110ml) and DUP4406PC (330ml) Photo Cyan Printer Ink  
 DUP2406PM (110ml) and DUP4406PM (330ml) Photo Magenta Printer Ink

Company Identification

MANUFACTURER/DISTRIBUTOR  
 DuPont  
 1007 Market Street  
 Wilmington, DE 19898

PHONE NUMBERS

Product Information : 1-800-441-7515 (outside the U.S.  
 302-774-1000)  
 Transport Emergency : CHEMTREC 1-800-424-9300(outside U.S.  
 703-527-3887)  
 Medical Emergency : 1-800-441-3637 (outside the U.S.  
 302-774-1000)

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 COMPOSITION/INFORMATION ON INGREDIENTS  
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Components

Material	CAS Number	%
Water	7732-18-5	60-80
Glycerin	56-81-5	5-10
*Ethylene Glycol	107-21-1	0-10
Ethoxylated Tetramethyldecynediol	9014-85-1	0-5
Carbon Black (Black Ink Only)	1333-86-4	0-5
Proprietary components		5-20

\* Disclosure as a toxic chemical is required under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

## (COMPOSITION/INFORMATION ON INGREDIENTS - Continued)

## Components (Remarks)

Ethylene Glycol is a component of Cyan, Photo Cyan and Photo Magenta Inks only.

The specific identity of some components is withheld as a trade secret.

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HAZARDS IDENTIFICATION  
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## Potential Health Effects

THIS PRODUCT CAN BE USED SAFELY WHEN USED AS DIRECTED AND WHEN APPLICABLE SAFETY PRECAUTIONS ARE FOLLOWED.

The potential routes of exposure from normal use of this product include skin and eye contact.

Eye contact with the liquid may cause minimal irritation. Symptoms of irritation may include redness, itching or a burning sensation or excessive tearing.

Skin contact with the product during normal use may cause moderate irritation, but not sensitization. Symptoms of irritation may include redness, drying or itching. Colors may stain skin.

Exposure to vapor or mists is not expected during normal use. Overexposure to vapor or mists may cause respiratory tract irritation with sneezing and coughing, drowsiness, dizziness, headache and nausea.

Ingestion is not an expected route of exposure in normal use. Ingestion may cause abdominal pain, diarrhea, dizziness, drowsiness, headache, nausea and vomiting.

Carbon black has been listed by IARC as a possible carcinogen. This classification is based on studies performed with airborne particulate carbon black. Exposures to carbon black in the use of printing ink are negligible.

## Carcinogenicity Information

The following components are listed by IARC, NTP, OSHA or ACGIH as carcinogens.

Material  
Carbon Black (Black Ink Only)

IARC NTP OSHA ACGIH  
2B

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FIRST AID MEASURES  
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## First Aid

## INHALATION

Inhalation is not an expected route of exposure during normal use of the product.

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

## SKIN CONTACT

Flush skin with water after contact. Wash contaminated clothing before reuse.

## EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

## INGESTION

Ingestion is not an expected route of exposure during normal use of the product. If ingested, consult a physician immediately.

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FIRE FIGHTING MEASURES  
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## Flammable Properties

Material is a nonflammable water-based solution.

## Extinguishing Media

Use any available extinguishing media.

## Fire Fighting Instructions

This material is not flammable. Use normal firefighting procedures for the area.

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ACCIDENTAL RELEASE MEASURES  
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## Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

## (ACCIDENTAL RELEASE MEASURES - Continued)

## Spill Clean Up

Wipe up spilled material with paper towels.

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HANDLING AND STORAGE  
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## Handling (Personnel)

Avoid contact with eyes. Avoid prolonged breathing or repeated contact with skin. Avoid contact with clothing. Wash thoroughly after handling. Avoid breathing vapors or mist.

## Storage

Close container after each use. Store in a cool, dry place. Do NOT expose to direct sunlight.

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EXPOSURE CONTROLS/PERSONAL PROTECTION  
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## Engineering Controls

Use sufficient ventilation to keep employee exposure below recommended limits.

## Personal Protective Equipment

Safety glasses are recommended as good industrial practice.

Respirators are not needed for normal use.

Special protective clothing is not needed for normal use. Gloves are recommended as good industrial practice.

## Exposure Guidelines

## Applicable Exposure Limits

## Glycerin

PEL (OSHA)	: 15 mg/m <sup>3</sup> - Total Particulates - 8 Hr TWA
	5 mg/m <sup>3</sup> - Respirable Fraction - 8 Hr TWA
TLV (ACGIH)	: 10 mg/m <sup>3</sup> - Total Particulates - 8 Hr TWA

## Ethylene Glycol

PEL (OSHA)	: None Established
TLV (ACGIH)	: Ceiling: 39.4 ppm, 100 mg/m <sup>3</sup> , aerosol, A4
AEL * (DuPont)	: 50 ppm, 8 Hr. TWA, vapor
	10 mg/m <sup>3</sup> , 8 Hr. TWA, particulate

## Carbon Black (Black Ink Only)

## (Applicable Exposure Limits - Continued)

PEL (OSHA)	:	3.5 mg/m <sup>3</sup> , 8 Hr. TWA
TLV (ACGIH)	:	3.5 mg/m <sup>3</sup> , 8 Hr. TWA, A4
AEL * (DuPont)	:	0.5 mg/m <sup>3</sup> , 8 & 12 Hr. TWA, (Polynuclear Aromatic Hydrocarbon Content <0.1%) Includes Channel, Lamp, and Thermal Black

\* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

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PHYSICAL AND CHEMICAL PROPERTIES  
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## Physical Data

Form	:	Liquid.
Color	:	Varies.
pH	:	7-10
Specific Gravity	:	1.0-1.1
Solubility in Water	:	Miscible
% Volatiles	:	60-80 %

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STABILITY AND REACTIVITY  
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## Chemical Stability

Stable.

## Incompatibility with Other Materials

Avoid contact with acids, bases, oxidizing materials and reducing agents.

## Decomposition

Decomposition does not occur under normal use conditions.

Combustion can produce carbon oxides, nitrogen oxides and sulfur oxides.

## Polymerization

Polymerization will not occur.

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TOXICOLOGICAL INFORMATION  
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## Animal Data

## EYE:

Animal testing indicates this material is a mild eye irritant.

## SKIN:

Animal testing indicates this material is a mild to moderate skin irritant, but not a skin sensitizer.

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ECOLOGICAL INFORMATION  
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## Ecotoxicological Information

No information is available.

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DISPOSAL CONSIDERATIONS  
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## Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

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TRANSPORTATION INFORMATION  
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## Shipping Information

DOT  
Not Regulated.

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REGULATORY INFORMATION  
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## U.S. Federal Regulations

## RCRA

Under RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste (40 CFR 261.11).

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OTHER INFORMATION  
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## NFPA, NPCA-HMIS

NPCA-HMIS Rating  
Health : 1  
Flammability : 0  
Reactivity : 0

Personal Protection rating to be supplied by user depending on use conditions.

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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.

Responsibility for MSDS : DuPont Color Communication  
Address : Wilmington, DE 19898

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS