

**M&R Sales and Service Inc.
Material Safety Data Sheet**

I-CLN – F700 Cleaning Solution

Created 30 October 2002

1. PRODUCT AND COMPANY IDENTIFICATION

Company Identification

MANUFACTURER

DuPont Imaging Technologies
DuPont Electronic and Communication Technologies
Barley Mill Plaza
Wilmington, DE (USA)

DISTRIBUTOR

M&R Sales and Service
1 N 372 Main Street,
Glen Ellyn, IL 60137 (USA)

PHONE NUMBERS

Product, Safety, Health and
Environmental Information : 1-302-695-9682 (8 a.m.-5 p.m. ET M-F, U.S.A.)
Medical Emergency : 1-800-441-3637 (24 hours, U.S.A.)

2. COMPOSITION / INFORMATION ON INGREDIENTS

Components (% by weight)

<u>Material</u>	<u>CAS Number</u>	<u>%</u>
Water	7732-18-5	80-98
Propylene Glycol	57-55-6	1-10
*Ethylene Glycol	107-21-1	1-10

*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.

Components (Remarks)

**The specific identity for each component not identified by a CAS Registry Number is withheld as a trade secret.

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3. HAZARDS IDENTIFICATION

Potential Health Effects

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

POTENTIAL HEALTH EFFECTS FROM PRODUCT

Potential routes of overexposure to this product are skin contact, eye contact and inhalation of vapor.

Ingestion is not expected to be significant route of exposure for this product under normal use conditions.

There is no toxicity data available for this specific formulation. Any potential hazards are presumed to be due to exposure to the components.

ADDITIONAL HEALTH EFFECTS

Since this mixture has not been tested as a whole to determine the hazards by all routes of exposure, information is provided for each hazardous component of the mixture to meet requirements of OSHA's Hazard Communication Standard (29 CFR 1910.1200). The effects noted occur from exposure to the pure component unless otherwise noted.

INFORMATION FOR COMPONENTS

ETHYLENE GLYCOL

Skin Contact – Immediate effects of overexposure may include: Irritation with itching, burning, redness, swelling or rash. Skin permeation may occur in amounts capable of producing the effects of systemic toxicity. There are no reports of human sensitization

Eye Contact – Immediate effects of overexposure may include: Eye irritation with tearing, Pain, or blurred vision.

Inhalation or Ingestion – Immediate effects of overexposure may include: Headaches, Nausea, Gross overexposure may cause: Central nervous system depression with dizziness, confusion, in coordination, drowsiness or unconsciousness. Convulsions. Altered kidney function which may be accompanied by abnormal urine volume, low back pain, discomfort or edema. Kidney failure. Deposits of calcium oxalate in the brain, spinal cord and kidneys. Liver abnormalities. High blood pressure. Irregular hear beat with a strange sensation in the chest, "heart thumping", apprehension, lightheadedness, feeling of fainting, dizziness, weakness, sometimes progressing to loss of consciousness and death. Congestive heart failure. Retention of acid in the blood, making oxygen less available in the blood stream and leading to symptoms of increased breathing rate, nausea, vomiting, confusion and weakness which may progress to loss of consciousness. Low blood sugar. Low blood calcium. Muscle Twitching. Involuntary movement of the eyes. Facial paralysis. Other effect include: Fatality.

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Additional Health Effects – No increase in chromosomal changes were noted in the Circulating blood of exposed workers. Increased susceptibility to the effects of the Material may be observed in persons with pre-existing disease of the kidneys.

PROPYLENE GLYCOL

Skin Contact – Short-term overexposure may cause irritation with itching, burning, redness, swelling or rash. Significant skin permeation and systemic toxicity, after contact appears unlikely. The compound has been infrequently associated with skin sensitization in humans.

Eye Contact – Immediate effects of overexposure may include eye irritation with tearing, pain, or blurred vision.

Inhalation – Exposure to mists may cause irritation of the nose and throat with sneezing, sore throat or runny nose.

Ingestion – Gross overexposure may cause central nervous system depression with dizziness, confusion, in coordination, drowsiness or unconsciousness. Acidosis.

Carcinogenicity information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

4. FIRST AID MEASURES

First Aid

INHALATION

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.

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5. FIRE FIGHTING MEASURES

Flammable Properties

Material is a nonflammable water-based solution.

Hazardous combustion products (gases/vapors) produced in fire can include carbon monoxide, carbon dioxide and smoke.

Extinguishing Media

Use media appropriate for surrounding material.

Fire Fighting Instructions.

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

6. ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

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

Initial Containment

Dike spill.

Spill Clean Up

Soak up with absorbent material.

7. HANDLING AND STORAGE

Handling (Personnel)

Avoid contact with eyes, skin, or clothing.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment

EYE/FACE PROTECTION

Wear safety glasses. Wear coverall chemical splash goggles and face shield when the possibility exists for eye and face contact due to splashing or spraying of the material.

RESPIRATORS

Respirators are not needed for normal use.

PROTECTIVE CLOTHING

If there is potential for significant dermal contact wear appropriate impervious clothing and gloves.

Exposure Guidelines

Applicable Exposure Limits

ETHYLENE GLYCOL

PEL (OSHA)	: None Established
TLV (ACGIH)	: Ceiling: 100 mg/m ³ , aerosol, A4 (Not classifiable As a human carcinogen)
AEL * (DuPont)	: 50 ppm, 8 Hr. TWA, vapor 10 mg/m ³ , 8 Hr. TWA, particulate

PROPYLENE GLYCOL

PEL (OSHA)	: None Established
TLV (ACGIH)	: None Established
WEEL (AIHA)	: 50 ppm, total vapor and aerosol, 8 Hr. TWA 10 mg/m ³ , aerosol only, 8 Hr. TWA

* 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Form	: Liquid
Color	: Clear Colorless
Odor	: Slight organic
Solubility in Water	: Miscible
pH	: About 7
Specific Gravity	: About 1

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10. STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials.

None Reasonably foreseeable.

Decomposition

Decomposition does not occur during normal use.

Polymerization

Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Animal Data

No data available for product.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information

No data available for product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal

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

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14. TRANSPORTATION INFORMATION

DOT (Department of Transportation):

Proper Shipping Name : Not Regulated

15. REGULATORY INFORMATION

Federal Regulations

TSCA Inventory Status – All components of this product are in compliant with TSCA chemical inventory regulations.

U.S. Regulations

State Regulations

State Right –To-Know

WARNING – SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE
CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM (California Proposition 65)

Not determined

16. OTHER INFORMATION

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.

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Key

ACGIH	American Conference of Governmental Industrial Hygienists
AEL	Acceptable Exposure Limit (DuPont)
Cmpds	Compounds
DOT	Department of Transportation (U.S.A.)
ET	Eastern Time (U.S.A.)
EU	European Union
HMIS®	Hazardous Material Information System (National Paint and Coatings Association)
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LEL or LFL	Lower Explosive Limit or Lower Flammable Limit
M-F	Monday through Friday
NIOSH	National Institute of Occupational Safety and Health (U.S.A.)
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act (U.S.A.)
TWA	Time-weighted Average
UEL or UFL	Upper Explosive Limit or Upper Flammable Limit
VOC	Volatile Organic Compound(s)
WEEL	Workplace Environmental Exposure Level

End of MSDS