

E.I.DU PONT DE MEMOURS & CO. -- CRONALAR DEVELOPER/REPLENISHER-PART B --  
6750-01-175-3066

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Product Identification  
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Product ID:CRONALAR DEVELOPER/REPLENISHER-PART B  
MSDS Date:12/20/1991  
FSC:6750  
NIIN:01-175-3066  
MSDS Number: BMTRN  
=== Responsible Party ===  
Company Name:E.I.DU PONT DE MEMOURS & CO.  
Address:1007 MARKET STREET  
City:WILMINGTON  
State:DE  
ZIP:19898  
Info Phone Num:800-441-7515  
Em  
ergency Phone Num:800-441-3637  
CAGE:NO133  
=== Contractor Identification ===  
Company Name:DU PONT E I DE NEMOURS & CO INC IMAGING SYS DEPT  
Address:BARLEY MILL PLZ 22-1356  
Box:80022  
City:WILMINGTON  
State:DE  
ZIP:19880-0022  
Country:US  
Phone:302-992-2012  
CAGE:82348  
Company Name:E.I.DU PONT DE MEMOURS & CO.  
Address:1007 MARKET STREET  
Box:City:WILMINGTON  
State:DE  
ZIP:19898  
Phone:800-441-7515  
CAGE:NO133

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Composition/Information on Ingredients  
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Ingred Name:WATER  
CAS:7732-18-

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RTECS #:ZC0110000

Fraction by Wt: 40 - 70%

Other REC Limits:NONE SPECIFIED

Ingred Name:SODIUM FORMALDEHYDE BISULFITE

CAS:149-44-0

Fraction by Wt: 10 - 30%

Other REC Limits:NONE SPECIFIED

Ingred Name:POTASSIUM CARBONATE

CAS:584-08-7

RTECS #:TS7750000

Fraction by Wt: 10 - 30%

Other REC Limits:NONE SPECIFIED

Ingred Name:SODIUM METABORATE TETRAHYDRATE

CAS:7775-19-1

RTECS #:ED4640000

Fraction by Wt: 1 - 5%

Other REC Limits:NONE SPECIFIED

Ingred Name:SODIUM HYDROXIDE (SARA III)

CAS:1310-73-2

RT

ECS #:WB4900000

Fraction by Wt: 1 - 5%

Other REC Limits:NONE SPECIFIED

OSHA PEL:2 MG/M3

ACGIH TLV:C 2 MG/M3; 9293

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:SODIUM SULFITE

CAS:7757-83-7

RTECS #:WE2150000

Fraction by Wt: 1 - 5%

Other REC Limits:NONE SPECIFIED

Ingred Name:FORMALDEHYDE (SARA III)

CAS:50-00-0

RTECS #:LP8925000

Fraction by Wt: 0.1 - 1%

Other REC Limits:NONE SPECIFIED

OSHA PEL:SEE 1910.1048

ACGIH TLV:C 0.3 PPM; A2; 9293

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

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===== Hazards Identification =====  
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LD50 LC50 Mixture:LD50 (ORAL RAT) 500 MG/KG (FORMALDEHYDE)

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:ACUTE-MAY CAUSE IRRITATION OF

EYES,SKIN & RESPIRATORY TRACT.HIGH CONCENTRATION CAN CAUSE EYE & SKIN DAMAGE,COUGH,DISCOMFORT,SHORTNESS OF BREATH.ORALLY CAN CAUSE NAUSEA,VOMITING,DIARRHEA,HEADACHE,WEAKN ESS,CNS DEPRESSION & EVEN

DEATH.CHRONIC-MAY CAUSE DERMATITIS,CONJUNCTIVITIS & CNS DEPRESSION.

Explanation of Carcinogenicity:CONTAINS FORMALDEHYDE, PER MSDS.

Effects of Overexposure:MAY CAUSE IRRITATION OF EYES, SKIN &

RESPIRATORY TRACT. HIGH CONCENTRATION CAN CAUSE EYE & SKIN DAMAGE, COUGH, DISCOMFORT, SHORTNESS OF BREATH. ORALLY CAN CAUSE NAUSEA, VOMITING, DIARRHEA, HEADACHE, W EAKNESS, CNS DEPRESSION & EVEN DEATH.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS

OR EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

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===== First Aid Measures =====  
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First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST.SKIN:WASH WITH SOAP & WATER.EYE:FLUSH WITH WATER FOR 15 MINUTES,HOLDING EYELIDS OPEN.INHALED:REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED.ORAL:DO NOT IN DUCE VOMITING.IF CONSCIOUS,DRINK LARGE AMOUNT OF WATER.CALL PHYSICIAN.

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== Fire Fighting Measures =====  
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Flash Point:NONE

Extinguishing Media:EXTINGUISH WITH AGENT SUITABLE FOR SURROUNDING FIRE

Fire Fighting Procedures:KEEP PERSONNEL REMOVED AND UPWIND OF FIRE.

WEAR SELF CONTAINED BREATHING APPARATUS. WEAR FULL PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard:NONE KNOWN.

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===== Accidental Release Measures =====  
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Spill Release Procedures:WEAR PROTECTIVE EQUIPMENTS. VENTILATE AREA. DIKE SPILL. SOAK UP WITH S

AWDUST, SAND, OIL DRY OR OTHER ABSORBENT MATERIALS. NEUTRALIZE WITH WEAK ACID.  
Neutralizing Agent:WEAK ACIDS

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===== Handling and Storage =====

Handling and Storage Precautions:STORAGE-STORE IN WELL VENTILATED AREA.KEEP CONTAINER TIGHTLY CLOSED.

Other Precautions:PROCESSING MAY PRODUCE SOLUBLE SILVER COMPLEXES WHICH REQUIRES TREATMENT TO MEET GOVERNMENTAL STANDARDS FOR WASTE WATER DISCHARGE. AVOID CONTACT WITH EYES AND SKIN. DO NOT BREATHE MISTS

OR VAPORS. WAS H THOROUGHLY AFTER HANDLING.

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===== Exposure Controls/Personal Protection =====

Respiratory Protection:NONE REQUIRED WHERE ADEQUATE VENTILATION CONDITIONS EXIST. IF AIRBORNE CONCENTRATION EXCEEDS TLV, A DUST/MIST RESPIRATOR IS RECOMMENDED. IF CONCENTRATION EXCEEDS CAPACITY OF RESPIRATOR, A SELF-CONTAINED BREATHING APPARATUS IS ADVISED.

Ventilation:GOOD GENERAL VENTILATION IS SUFFICIENT FOR MOST CONDITIONS.

Protective Gloves:NEOPRENE OR LATE

X

Eye Protection:CHEMICAL SPLASH GOGGLES

Other Protective Equipment:EYE WASH STATION, QUICK DRENCH SHOWER AND IMPERVIOUS CLOTHING

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Safety and Health

PART B OF A 2 PART KIT. FOR PART A SEE NSN 6750-01-176-0367. FORMULA CHANGED. FOR PREVIOUS FORMULATIONS, SEE PIN A OR B.

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===== Physical/Chemical Properties =====

HCC:B3

Boiling Pt:B.P. Text:>212F,>100C

Spec Gravity:1.3 - 1.4

pH:11-12

Solubility in Water:COMPLETE

Appearance and Odor:COLORLESS, ODORLESS, CLEAR LIQUID

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===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES  
INCOMPATIBLE WITH STRONG ACIDS

Stability Condition to Avoid:STABLE AT ROOM TEMPERATURES AND STORAGE CONDITIONS.

Hazardous Decomposition Products:DECOMPOSES BY REACTION WITH STRONG ACIDS

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===== Disposa

I Considerations =====

Waste Disposal Methods:TREATMENT, STORAGE, TRANSPORTATION AND DISPOSAL MUST BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. REMOVE NON USABLE SOLID MATERIAL AND/OR CONTAMINATED SOIL FOR DISPOSAL IN AN APPROV ED AND PERMITTED LANDFILL.

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