

E.I.DU PONT DE NEMOURS & CO;IMAGING SYSTEMS DEPT. -- CRONES MXD X-RAY MANUAL  
DEVELOPER, PART B -- 6525-01-061-0505

===== Product Identification =====

Product ID:CRONES MXD X-RAY MANUAL DEVELOPER, PART B

MSDS Date:08/01/1989

FSC:6525

NIIN:01-061-0505

Kit Part:Y

MSDS Number: BHHJR

=== Responsible Party ===

Company Name:E.I.DU PONT DE NEMOURS & CO;IMAGING SYSTEMS DEPT.

Address:1007 MARKET STREET

City

:WILMINGTON

State:DE

ZIP:19898

Country:US

Info Phone Num:800-441-7515

Emergency Phone Num:800-441-3637 (MEDICAL)

Preparer's Name:CT SHEA OFFICE

CAGE:DO962

=== 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 NEMOURS,INC.

CAGE:DO962

===== Composition/Information on Ingredients =====

Ing

red Name:ACETIC ACID (SARA III)  
CAS:64-19-7  
RTECS #:AF1225000  
Fraction by Wt: 40-70%  
OSHA PEL:10 PPM  
ACGIH TLV:10 PPM/15 STEL; 9192  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:1-PHENYL-3-PYRAZOLIDONE  
CAS:92-43-3  
RTECS #:UQ8750000  
Fraction by Wt: 0.1-1.0%

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by Wt: 15-40%

===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:

NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:PRODUCT IS SEVERELY IRRITATING TO  
CORROSIVE TO BODY TISSUES. TOXICITY IS BY CORROSIVITY IN ALL THREE  
ROUTES OF ENTRY. CHRONIC CONTACT MAY CAUSE ULCERATION OR DENTAL  
EROSION.

Explanation of Carcinogenicity:THIS PRODUCT IS NOT LISTED BY IARC, NTP,  
OR OSHA AS A CARCINOGEN.

Effects of Overexposure:EYE:SEVERE IRRITATION,BURNS.  
SKIN:IRRITATION,BURNS. INHALED:INTENSE RESPIRATORY  
IRRITATION,COUGHING. CHRONIC INHALATION MAY C  
AUSE ULCERATION.

INGESTED:G/I ITTITATION, BURNS.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS  
OR WITH A PRE-EXISTING DISEASE INVOLVING THE RESPIRATORY TRACT MAY  
BE AT INCREASED RISK FROM EXPOSURE.

===== First Aid Measures =====

First Aid:EYE:FLUSH WITH WATER 15 MIN. GET MEDICAL CARE. SKIN:REMOVE  
CONTAMINATED CLOTHING. WASH WITH SOAP & WATER. LAUNDER CLOTHING  
BEFORE REUSE. INHALED:REMOVE TO FRESH AIR. RESTORE BR

EATING. GET

IMMEDIATE MEDICAL CARE. INGESTION: DO NOT INDUCE VOMITING. GIVE  
LIME WATER OR MILK OF MAGNESIA. GET IMMEDIATE MEDICAL CARE.

===== Fire Fighting Measures =====

Flash Point:163F,73C

Lower Limits:5.4

Upper Limits:16.0

Extinguishing Media:WATER,WATER SPRAY,WATER FOG, CARBON DIOXIDE, FOAM,  
DRY CHEMICAL

Fire Fighting Procedures:WEAR SELF CONTAINED BREATHING APPARATUS AND  
PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard:NONE

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===== Accidental Release Measures =====

Spill Release Procedures:USE APPROPRIATE PROTECTIVE EQUIPMENT &  
PROCEDURES. CONTAIN SPILL AND RECOVER LIQUID IF POSSIBLE.  
NEUTRALIZE. ADSORB OR OTHERWISE COLLECT.

Neutralizing Agent:SODIUM BICARBONATE OR 50/50 MIX LIME & SODA ASH

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

Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSED. STORE  
IN CORROSION-PROOF AREA. KEEP CONTAINERS OUT OF SUN AND  
AWAY FROM

HEAT. ISOLATE FROM INCOMPATIBLE MATERIALS.

Other Precautions:DO NOT STORE OR CONSUME FOOD, DRINK OR TOBACCO IN AN  
AREA WHERE THEY MAY BE CONTAMINATED BY THIS PRODUCT.

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

Respiratory Protection:NONE REQUIRED WHERE ADEQUATE VENTILATION  
CONDITIONS EXIST. IF AIRBORNE CONCENTRATION EXCEEDS PEL/TLV, A  
NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED.

Ventilation:USE MECHANICAL (GENERAL) OR LOCAL

EXHAUST VENTILATION TO

MEET PEL/TLV REQUIREMENTS.

Protective Gloves:RUBBER GLOVES

Eye Protection:SAFETY GOGGLES WITH OPTIONAL FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER. ACID  
SUIT OR APRON WITH RUBBER BOOTS IF DICTATED BY TASK AT HAND.

Work Hygienic Practices:OBSERVE GOOD CHEMICAL HYGIENE PRACTICES AND  
RECOMMENDED PROCEDURES. AVOID ANY CONTACT IF POSSIBLE, ESPECIALLY  
WITH VAPOR

Supplemental Safety and Health

MSDS NUMBER H-15837(8/89) (VAX P0000019

) DU PONT REGISTRY NUMBER  
DP456-34-2.

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

HCC:C2  
Boiling Pt:>100.C, 212.F  
Spec Gravity:1.07  
pH:1.3  
Solubility in Water:100%  
Appearance and Odor:CLEAR LIGHT AMBER LIQUID, VINEGAR ODOR

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

Stability Indicator/Materials to Avoid:YES  
STRONG BASES, OXIDIZERS  
Stability Condition to Avoid:NONE  
Hazardous Decomposition Products:CARBON DIOXIDE, CARBON MONOXIDE

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE I/A/W ALL APPLICABLE FEDERAL, STATE AND  
LOCAL ENVIRONMENTAL REGULATIONS. MFR SUGGESTS NEUTRALIZED SOLUTION  
MAY BE FLUSHED TO DRAIN.

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