

DU PONT E I DE NEMOURS AND CO INC -- SODIUM CYANIDE -- 6810-00-843-3643

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Product Identification
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Product ID:SODIUM CYANIDE

MSDS Date:10/01/1988

FSC:6810

NIIN:00-843-3643

MSDS Number: BHCGK

=== Responsible Party ===

Company Name:DU PONT E I DE NEMOURS AND CO INC

Address:1007 MARKET STREET

Box:1635

City:WILMINGTON

State:DE

ZIP:19899

Country:US

Info Phone Num:800-441-9442

Emergency Phone N

um:800-441-3637

Preparer's Name:J.C. WATTS

CAGE:18873

=== Contractor Identification ===

Company Name:BIOCLINICAL LABORATORIES INC NORTH STRONG DIV

Address:7322 WESTMORE RD

Box:City:ROCKVILLE

State:MD

ZIP:20850-1260

Country:US

Phone:212-573-1200/FAX (9-1)908-454-3124

CAGE:9A714

Company Name:E.I. DUPONT DE NEMOURS & CO

Address:1007 MARKET STREET

Box:City:WILMINGTON

State:DE

ZIP:19898

Country:US

Phone:800-441-7515;800-441-9442

CAGE:18873

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Composition/Information on Ingredients
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Ingred Name:SODIUM CYANIDE (SARA III)

CAS:143-33-9

RTECS #:VZ7525000

Fraction by Wt: 100%

OSHA PEL:5 MG/M3 (CN)

ACGIH TLV:S; 5 MG/M3 (CN);9192

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

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

LD50 LC50 Mixture:LD50 ORAL (RAT) IS 15 MG/KG

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

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TOXIC EFFECTS FROM EXPOSURE BY
INHALATION,IN

GESTION,OR SKIN CONTACT INCLUDE

ASPHYXIA,DYSPNEA,ATAXIA,TREMORS,COMA,AND LETHALITY BY DISRUPTING
OXIDATIVE METABOLISM. MAY BE FATAL IF INHALED,SWALLOWED OR
ABSORBED THROUGH SKIN.EVIDENCE SUGGESTSTHAT SIGNIFICANT SKIN
PERMATION CAN OCCUR.

Explanation of Carcinogenicity:THIS PRODUCT DOES NOT CONTAIN ANY
COMPOUNDS WHICH ARE LISTED BY NTP, IARC OR OSHA AS CARCINOGENIC.

Effects of Overexposure:EYES:IRRITATION,BURNS,TEARING,BLURRED
VISION,PERMANENT EYE DAMAGE. SKIN:IRRITATION,
RASH.

INHALATION/INGESTION:NAUSEA,HEADACHE,DIZZINESS,VOMITING,WEAKNESS.
HIGHER EXPOSURES MAY LEAD TO RAPID RESPIRATIO N,LOWERED BLOOD
PRESSURE,UNCONSCIOUSNESS,CONVULSIONS AND FATALITY.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PREEXISTING
DISEASES OF THE CENTRAL NERVOUS SYSTEM MAY HAVE INCREASED
SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

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

First Aid:EYES:IMMEDIATELY FLUSH WITH PLENTY O
F WATER.SEE DOCTOR.

SKIN:IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND SHOES,AND FLUSH
WITH PLENTY OF WATER.SEE DOCTOR. INHALATION:REMOVE TO FRESH
AIR.ADMINISTER AMY L NITRITE ANTIDOTE AND OXYGEN.SEE DOCTOR.
INGESTION:IF CONSCIOUS,IMMEDIATELY GIVE ONE PINT OF 1% SODIUM
THIOSULFATE SOLUTION (OR PLAIN WATER) AND INDUCE VOMIT.IF
UNCONSCIOUS GIVE AMYL NITRITE & OXYGEN

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

Flash Point:NONE

Extinguishing Media:WA

TER.--DO NOT USE CARBON DIOXIDE.IT REACTS WITH
SODIUM CYANIDE TO PRODUCE TOXIC AND FLAMMABLE HYDROGEN CYANIDE
GAS--

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &
FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER
SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:CYANIDE SOLUTION RUNOFF MAY OCCUR IF
CONTAINERS ARE OPENED OR BURNED.RUNOFF SHOULD BE CONTAINED.

===== Accidental Release Measures =
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Spill Release Procedures:SWEEP UP AND SHOVEL INTO A COVERED CONTAINER
OR PLASTIC BAG.FLUSH SPILL AREA WITH A DILUTE SOLUTION OF SODIUM OR
CALCIUM HYPOCHLORITE.

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

Handling and Storage Precautions:STORE IN DRY,VENTILATED,SECURED
AREAS.KEEP CONTAINERS CLOSED & CONTENTS DRY.DO NOT STORE NEAR
ACIDS,ACID SALTS,WATER,WEAK ALKALIS OR OXIDIZING AGENTS.

Other Precautions:DO NOT GET IN EYES,ON SKIN OR CLO
THING.AVOID

BREATHING MISTS OR VAPORS.DO NOT CARRY FOODSTUFF,BEVERAGES,OR
TOBACCO WHERE CONTAMINATION WITH CYANIDE IS POSSIBLE.DO NOT STORE
NEAR COMBUSTIBLES OR FLAMMA BLE MATERIALS BECAUSE OF CYANIDE
RUNOFF.

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

Respiratory Protection:NIOSH-APPROVED RESPIRATOR WITH CARTRIDGE
APPROPRIATE FOR CYANIDE DUST AND MIST OR SCBA AS REQUIRED,FOR THE
EXPOSURE OF CONCERN.

Ventilation:GOOD GENERAL VENTILATION SHOULD BE
PROVIDED TO KEEP

DUST,MIST,AND HCN GAS BELOW EXPOSURE LIMITS.

Protective Gloves:BUTYL OR NEOPRENE.

Eye Protection:CHEMICAL SPLASH GOGGLES.

Other Protective Equipment:FACE SHIELD,RUBBER SUIT,APRON &
BOOTS,EMERGENCY AIR SUPPLIED RESPIRATOR,HCN DETECTORS.EYE WASH
STATION & SAFETY SHOWER.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING, AND BEFORE
EATING, DRINKING OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE
REUSE.

Supplemental Safety and Health
NONE.

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== Physical/Chemical Properties =====

HCC:T2

Boiling Pt:B.P. Text:2725F,1496C

Melt/Freeze Pt:M.P/F.P Text:1047F,564C

Vapor Pres:NEGLIGIBLE

Spec Gravity:1.6

pH:11.5

Solubility in Water:37% AT 68F

Appearance and Odor:WHITE GRANULAR SOLID.NO ODOR.(BUT CAN HAVE SLIGHT AMMONIA AND/OR ODOR IF DAMP).

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

Stability Indicator/Materials to Avoid:YES

ACIDS,STRONG OXIDIZING AGENTS,WATER,WEAK ALKALINE SOLUTIONS.

Stability C

Condition to Avoid:MOISTURE.

Hazardous Decomposition Products:MOISTURE WILL CAUSE SLOW

DECOMPOSITION,RELEASING POISONOUS HYDROGEN CYANIDE AND AMMONIA GAS.

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

Waste Disposal Methods:DO NOT FLUSH CYANIDE INTO SEWERS WHICH MAY CONTAIN AN ACID.DETOXIFY WITH SODIUM HYPOCHLORITE OR HYDROGEN PEROXIDE.FLUSH TO WASTE WATER TREATMENT SYSTEM OR CALL A LICENSED DISPOSAL CONTRACTOR.COMPLY WITH FEDERAL,STATE AND LOCAL REGULATIONS.

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