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# SODIUM CYANIDE

**MSDS Number** 

BHCGK

**National Stock Number** 

6810-00-843-3643

Product Name

SODIUM CYANIDE

Manufacturer DU PONT E I DE NEMOURS AND CO INC

### **Product Identification**

Product ID:SODIUM CYANIDE MSDS Date:10/01/1988 FSC:6810 NIIN:00-843-3643 MSDS Number: BHCGK

### **Responsible Party**

DU PONT E I DE NEMOURS AND CO INC

1007 MARKET STREET

WILMINGTON, DE 19899

US

Emergency Phone: 800-441-3637

Info Phone: 800-441-9442

Preparer: J.C. WATTS

Cage: 18873

### Contractor

E.I. DUPONT DE NEMOURS & CO

WILMINGTON, DE 19898

US

800-441-7515;800-441-9442 Cage: 18873

## Ingredients

SODIUM CYANIDE (SARA III) CAS: 143-33-9 RTECS: VZ7525000 Fraction By Weight: 100% OSHA PEL5 MG/M3 (CN) ACGIH TLV: S; 5 MG/M3 (CN);9192 EPA Report Quantity: 10 LBS DOT Report Quantity: 10 LBS

### Hazards

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, INGESTION, 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.

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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**

First Aid:EYES:IMMEDIATELY FLUSH WITH PLENTY OF 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**

Flash Point:NONE

Extinguishing Media:WATER.--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**

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

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 CLOTHING.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**

Respiratory Protection:NIOSH-APPROVED RESPIRATOR WITH CARTRIDGE APPROPIATE 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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## **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).

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#### Stability

Stability Indicator/Materials to Avoid:YES ACIDS,STRONG OXIDIZING AGENTS,WATER,WEAK ALKALINE SOLUTIONS. Stability Condition to Avoid:MOISTURE. Hazardous Decomposition Products:MOISTURE WILL CAUSE SLOW DECOMPOSITION,RELEASING POISONOUS HYDROGEN CYANIDE AND AMMONIA GAS.

#### Disposal

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 WI TH FEDERAL,STATE AND LOCAL REGULATIONS.

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