

ALLIED CHEMICAL (SPECIALITY CHEMICAL DIVISION) -- SODIUM CYANIDE -- 6810-00-843-3643

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

Product ID:SODIUM CYANIDE

MSDS Date:10/01/1988

FSC:6810

NIIN:00-843-3643

MSDS Number: BKJQK

=== Responsible Party ===

Company Name:ALLIED CHEMICAL (SPECIALITY CHEMICAL DIVISION)

Address:COLUMBIA RD & PARK AVE

Box:1087R

City:MORRISTOWN

State:NJ

ZIP:07960

Country:US

Emergency Phon

e Num:201-455-4157

CAGE:1L168

=== Contractor Identification ===

Company Name:ALLIED CHEMICAL COMPANY

Box:1087R

CAGE:1L168

Company Name:ALLIED-SIGNAL INC

Address:Box:2332R

City:MORRISTOWN

State:NJ

ZIP:07962-2332

Country:US

Phone:201-455-4414

CAGE:1L164

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

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

=====

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

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 SUGGESTS THAT SIGNIFICANT SKIN PERMANENT DAMAGE 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 RESPIRATION, LOWERED  
BLOOD PRESSURE, UNCONSCIOUSNESS, CONVULSIONS AND FATALITY.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PREEXISTING SKIN  
DISORDERS CAN BE AFFECTED.

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

First Aid:EYES-IMMEDIATELY FLUSH WITH PLENTY OF WATER. SEE DOCTOR.

SKIN-IMMEDIATELY REMOVE SOILED CLOTHING

& SHOES, & FLUSH WITH

PLENTY OF WATER. SEE DOCTOR. INHALATION-REMOVE TO FRESH AIR.

ADMINISTER AMYL 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:WATER.--DO NOT USE CARBON DIOXIDE. IT REACTS WITH  
SODIUM CYANIDE

O PRODUCE TOXIC AND FLAMMABLE HYDROGEN CYANIDE

GAS--

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCB & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO CO 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 =====

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, VENTED, SECURED AREAS.

KEEP CONTAINERS CLOSED & CONTENTS DRY. DO NOT STORE NEAR ACIDS, AC SALTS, WATER, WEAK ALKALIS OR OXIDIZING AGENTS

Other Precautions:DO NOT GET IN EYES, SKIN OR CLOTHING. AVOID BREATHING MIST/VAPORS. DO NOT CARRY FOODSTUFF, BEVERA

GES OR TOBACCO WHERE CONTAMINATION WITH CYANIDE IS POSSIBLE. DO NOT STORE NEAR COMBUSTIBLES OR FLAMMABLE 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, AN HCN GAS BELOW EXPOSURE LIMITS.

Protec

tive Gloves:BUTYL OR NEOPRENE.

Eye Protection:CHEMICAL SPLASH GOGGLES.

Other Protective Equipment:FACE SHIELD, RUBBER SUIT, APRON & BOOTS, EMERGENCY A 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.

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

HCC:T3

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 AMMONI AND/OR ODOR IF DAMP)

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

Stability Indicator/Materials to Avoid:YES  
ACIDS, STRONG OXIDIZING AGENTS, WATER, WEAK ALKALINE SOLUTIONS.  
Stability Condition to Avoid:MOISTURE.  
Hazardous Decomposition Products:MOISTUR  
E 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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