

FEDERAL SPECIFICATIONS PROMULGATED BY GSA -- SODIUM CYANIDE -- 6810-00-843-3643

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

Product ID:SODIUM CYANIDE

MSDS Date:09/04/1992

FSC:6810

NIIN:00-843-3643

MSDS Number: BNRGF

=== Responsible Party ===

Company Name:FEDERAL SPECIFICATIONS PROMULGATED BY GSA

City:WASHINGTON

State:DC

Country:US

Info Phone Num:804-279-4371

Emergency Phone Num:CALL LOCAL POISON CENTER

Pr

eparer's Name:DGSC-SSH

CAGE:81348

=== 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:FEDERAL SPECIFICATIONS, PROMULGATED BY GSA

Box:City:WASHINGTON

State:DC

Country:US

CAGE:81348

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

Ingred Name:SODIUM CYANIDE (SARA III)

CAS:143-33-9

RTECS #:VZ752

5000

Fraction by Wt: 100%

Other REC Limits:NONE SPECIFIED BY M.

OSHA PEL:5 MG/M3 (CN)

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

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

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===== 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 ASPH

YXIA, 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 Conditions Aggravated by Exposure:INDIVIDUALS WITH PREEXISTING SKIN  
DISORDERS CAN BE AFFECTED.

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===== 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

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.

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

Flash Point:NONE

Extinguishing Media:WATER.--DO NOT USE CARBON DIOXIDE. IT REACTS WITH  
SODIUM CYANIDE TO PRODUCE TOXIC AND FLAMMABLE HYDROGEN CYANIDE

YANIDE  
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, BEVERAGES 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.

Protective 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. LAUNDRY 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., ODORLESS.

===== 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:MOISTURE WILL CAUSE SLOW

DECOMPOSITION, RELEASING POISONOUS HYDROGEN CYANIDE AND AMMONIA

G

AS.

===== 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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