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FISHER SCIENTIFIC CHEMICAL DIVISION -- SODIUM CYANIDE, SOLID -- 6810-00-843-3643

Product ID:SODIUM CYANIDE, SOLID

MSDS Date:07/05/1990

FSC:6810

NIIN:00-843-3643

Status Code:A

MSDS Number: CKPTB === Responsible Party ===

Company Name: FISHER SCIENTIFIC CHEMICAL DIVISION

Address:1 REAGENT LANE

City:FAIR LAWN

State:NJ ZIP:07410 Country:US

Info Phone Num:201-796-7100

Emergency Phone Num:201-796-7100 Preparer's Name:GASTON L.PILLORI Chemtrec Ind/Phone:(800)424-9300

CAGE:1B464

=== Contractor Identification ===

Company Name: FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address:1 REAGENT LANE

Box:City:FAIRLAWN

State:NJ

ZIP:07410-2802

Country:US Phone:201-796-7100

CAGE:1B464

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

Ingred Name:SODIUM CYANIDE (SARA III)

CAS:143-33-9

RTECS #:VZ7525000

= 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 6.4 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:ACUTE: EYES: DUST CAUSES IRRITATION.
SOLUTIONS ARE CORROSIVE AND CAUSE SERIOUS CORNEAL BURNS. SKIN:
CORROSIVE, CAUSES BURNS, DERMATITIS, ULSERS. INHALATION: CAUSES IRRITATION TO NO

SE AND MUCOUS MEMBR ANES, NOSE BLEED, NASAL

ULCERATION. INGESTION: MASSIVE DOSES RESULT IN UNCONSCIOUSNESS, CONVULSIONS, DEATH. SMALLER AMOUNTS MAY RESULT IN CORROSION OF GASTRIC MUCOSA. CHRONIC: EYES: REPEATED OR PROLON GED CONTACT MAY RESULT IN CONJUNCTIVITIS. SKIN: LONG CONTACT MAY RESULT IN DERMATITIS, "CYANIDE RASH". INHALATION: CAUSES DIZZINESS, UPPER RESPIRATORY TRACT IRRITATION. INGESTION: LOW LEVELS OVER LO NG PERIODS, HEADACHE, NAUSEA, DIZZINESS.

Explanati

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

Effects of Overexposure:EYES: IRRITATION, TISSUE CORROSION, REDNESS, PAIN, BLURRED VISION, SERIOUS CORNEAL BURNS, CONJUNCTIVITIS. SKIN: REDNESS, PAIN, BURNS, DERMATITIS, ULCERS, "CYANIDE RASH", LOSS OF APPETITE, HEADACHE, WE AKNESS, NAUSEA, DIZZINESS. INHALATION: IRRITAION OF NOSE AND MUCOUS MEMBRANES, NOSEBLEED, NASAL ULCERATION, LOSS OF APPETITE, HEAD

ACHE, WEAKNESS, NAUSEA,

DIZZINESS, IRRITATION OF UPPER RESPIRATORY TRA CT. INGESTION: CORROSION OF GASTRIC MUCOSA, CONSTRICTION OF THROAT, SALIVATION, NAUSEA, VOMITING, ANXIETY, CONFUSION, VERTICO, GIDDINESS, WEAKNESS, HEADACHE, RAPID PULSE, UNCONSCIOUSNESS., CONVULSIO NS, DEATH,

Medical Cond Aggravated by Exposure:PERSON WITH PREEXISTING SKIN DISORDERS, IMPAIRED PULMONARY FUNCTION, HISTORY OF FAINTING SPELLS, UNUSUAL SUSCEPITIBILITY TO EFFECTS OF ANOXIA OR WITH ANEMIA MAY BE

AT INCREASED RISK FROM EXPOSURE.

First Aid:EYES: FLUSH WITH LARGE AMOUNTS OF WATER, OCCASIONALLY LIFTING UPPER AND LOWER LIDS FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH AREA WITH SOAP AND WATER. GE T MEDICAL ATTENTION. INHALATION: MOVE TO FRESH AIR. IF NOT BREATHING GIVE CPR. GIVE OXYGEN TO MAINTAIN HIGH BLOOD/OXYGEN TENSION. GET MEDICAL ATTENTION.

INGES	HON: IF							
CON	ISCIOUS,	ADMINISTER	SYRUP	OF IP ECA	AC AND/	OR PERFO	ORM GASTF	RIC
I A\//	AGE USI	NG TAP WAT	FR DILLI	TE SODIU	M BICAR	BONATE :	SOLUTION	OR

DILUTE POTASSIUM PERMANGANATE SOLUTION. IF NOT BREATHING GIVE CPR. GET MEDICAL ATTENTION.

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

Flash Point: NONCOMBUSTIBLE

Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, HALON, WATER SPRAY, OR STANDARD FOAM. (1987 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.4). FORLARGER

FIRES USE WATER SPRAY, FOG OR STANDARD FOAM.

Fire Fighting Procedures:FOR LARGER FIRES, USE WATER SPRAY, FOG, OR ALCOHOL FOAM. MOVE CONTAINERS FROM FIRE AREA IF POSSIBLE. FIGHT FIRES FROM MAXIMUM DISTANCE. STAY AWAY FROM STORAGE TANK ENDS. DIKE FIRE CONTROL WATER FOR LA TER DISPOSAL.

Unusual Fire/Explosion Hazard:NEGLIGIBLE FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME. MAY BURN BUT DOES NOT IGNITE READILY. CONTAINERS MAY EXPLODE IN HEAT OF FIRE.

	=== Accidental
Release Measures	

Spill Release Procedures:TAKE UP WITH SAND OR OTHER ABSORBENT MATERIAL AND PLACE INTO CONTAINERS FOR LATER DISPOSAL. FOR SMALL DRY SPILL, SHOVEL MATERIAL INTO CLEAN, DRY CONTAINER AND COVER. LARGER SPILLS: DIKE FAR AHEAD OF S PILL FOR LATER DISPOSAL. IF REPORTABLE QUANTIY SPILLED (RQ=10 LBS) REPORT TO LOCAL EMERGENCY PLANNING COMMITTEE AND STATE EMERGENCY RESPONSE COMMISSION AND NATIONAL RESPONSE CENTER AT 800-426-2675.

Neutralizing

Agent:NEUTRALIZE WATER SPILL WITH CAUSTIC SODA. ADD CALCIUM HYPOCHLORITE TO SPILL.

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

Handling and Storage Precautions:PROTECT AGAINST PHYSICAL DAMAGE, STORE IN A COOL, DRY PLACE. SEPARATE FROM OTHER STORAGE AND PROTECT FROM ACIDS AND OXIDIZING MATERIALS (NFPA 49, HAZARDOUS CHEMICALS DATA, 1975).

Other Precautions: SARA SECTION 302 REQUIRES EACH FACILITY WHERE HAZARDOUS SUBSTANCE IS PRESENT IN QUANTITY EQUAL

TO OR GREATER

THAN THE TPG FOR THAT SUBSTANCE NOTIFY STATE EMERGENCY RESPONSE COMMISION FOR STATE IN WHICH IT IS LOCATED. SECTION 303 OF SARA REQUIRES THESE FACILITIES TO PARTICIPATE IN LOCAL EMERGENCY RESPONSE PLANNING.

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

Respiratory Protection: THE SPECIFIC RESPIATOR USED MUST BE BASED ON CONTMINATION LEVELS FOUND IN THE WORKPLACE AND APPROVED BY THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEA

LTH AND THE MINE

SAFETY AND HEALTH ADMINIS TRATION (NIOSH-MSHA).

Ventilation:PROVIDE LOCAL EXHAUST OR PROCESS ENCLOSURE VENTILATION TO MEET PUBLISHED EXPOSURE LIMITS.

Protective Gloves:WEAR APPROPRIATE PROTECTIVE GLOVES TO PREVENT SKIN CONTACT.

Eye Protection:WEAR SPLASH-PROOF OR DUST-RESISTANT SAFETY GOGGLES AND A FACE SHIELD.

Other Protective Equipment:WEAR APPROPRIATE PROTECTIVE (IMPERVIOUS)
CLOTHING AND EQUIPMENT TO PREVENT ANY POSSIBILITY OF SKIN CONTACT
WITH THIS SU

BSTANCE. PROVIDE EYE WASH STATION AND QUICK DRENCH SHOWER IN IMMEDIATE WORK AREA.

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

Supplemental Safety and Health

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

HCC:T2

Boiling Pt:=1496.1C, 2725.F

Melt/Freeze Pt:=563.9C, ######F

Vapor Pres:1 MM @817C

Spec Gravity:1.61 pH:BASIC IN SOL

Solubility in Water:58 % @20C

Appearance

and Odor:COLORLESS TO WHITE DELIQUESCENT GRANULES, OR CRYSTALLINE POWDER. BITTER ALMONDS

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

Stability Indicator/Materials to Avoid:YES

ACIDS, ACID SALTS: FORM TOXIC AND FLAMMABLE HYDROGEN CYANIDE GAS.

CHLORATES: EXPLODE ABOVE 450C. ETHYL CHLOROACETATE: VIOLENT REACTION. NITRATES: EXPLODE. NITRIC ACID: EXPLOSIVE. NITRITES:

EXPLODE. OXIDIZERS (STRONG): EXPLO

Stability Condition to Avoid: STABLE UNDER NORMAL TEMPERAT

URES AND
PRESSURES. REACTS WITH ACIDS TO READILY RELEASE HIGHLY TOXIC ANI
HIGHLY FLAMMABLE HYDROGEN CYANIDE GAS.
Hazardous Decomposition Products:THERMAL DECOMPOSITION PRODUCTS MAY
INCLUDE HIGHLY TOXIC FUMES OF HYDROGEN CYANIDE.
Conditions to Avoid Polymerization: HAZARDOUS POLYMERIZATION HAS NOT
BEEN REPORTED TO OCCUR UNDER NORMAL TEMPERATURES AND PRESSI

======== Toxicological Information =============

Toxicological Information:714 UG/KG ORAL MAN TDLO;655 7 UG/KG ORAL MAN

LDLO; 2856 UG/KG ORAL HUMAN LDL0; 6440 UG/KG ORAL RAT LD50; 4 MG/KG ORAL DOMESTIC ANIMAL LD50. REPRODUCTIVE EFFECTS DATA (RTECS). CARCINOGEN STATUS: NONE. S ODIUM CYANIDE IS HIGHLY TOXIC, A CHEMICAL ASPHYXIANT, AND A SEVERE IRRITANT TO EYES, SKIN, MUCOUS MEMBRANES. POISONING MAY AFFECT RESPIRATORY, CARDIOVASCULAR, CENTRAL NERVOUS SYSTEMS. PERSON WITH HIST ORY OF FAINTING SPELLS (SYMPTOMS OF VARIOUS TYPES OF CARDIOVASCULAR AND NERVOUS DISORDERS), U

NUSUAL SUSCEPTIBILITY TO EFFECTS OF ANOXIA OR WITH ANEMIA.

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

Waste Disposal Methods:DISPOSAL MUST BE IN ACCORDANCE WITH STANDARDS APPLICIABLE TO GENERATORS OF HAZARDOUS WASTE. 40 CFR 262. EPA HAZARDOUS WASTE NUMBER P 106.

======== MSDS Transport Information ==========

Transport Information:DOT HAZARD CLASSIFICATION 49 CFR 172.101. POISON B: LABELING REQUIREMENTS 49 CFR 172.101 AND SUBPART E: PACKAGING REQUIREMENTS: 49 CFR 173.370; EXCEPTIONS: 49 CFR 173.370.

========= Regulatory Information ================

SARA Title III Information:THRESHOLD PLANNING QUANTITY (TPQ): SARA SECTION 302 REQUIRES THAT EACH FACILITY WHERE ANY EXTREMELY HAZARDOS SUBSTANCE IS PRESENT IN A QUANTITY EQUAL TO OR GREATER THAN THE TPG FOR THAT SUBSTANCE NOTI FY THE STATE EMERGENCY RESPONSE COMMISSION FOR THE STATE IN WHICH IT IS LOCATED. SECTION 303 OF SAR REQUIR

ES THESE FACILITIES TO PARTICIPATE IN LOCAL

EMERGENCY RESPONSE PLANNING (40 CFR 355.30). 100 P OUNDS SARA SECTION 302 THRESHOLD PLANNING QUANTITY; 10 POUNDS SARA SECTION 304 REPORTING QUANTITY; 10 POUNDS CERCLA SECTION 103 REPORTABLE QUANTITY. SUBJECT TO SARA SECTION 313 ANNUAL TOXIC CHEMICAL R ELEASE REPORTING.

Federal Regulatory Information: CERCLA RATINGS (SCALE 0-3): HEALTH=3, FIRE=0, REACTIVITY=0, PERSISTENCE=0. NFPA RATINGS (SCALE 0-4): HEALTH=3. FIRE=0. REACTIVI TY=0.

============= Other Information =============================

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