MALLINCKRODT INC. SCIENCE PRODUCTS DIVISION SODIUM CYANIDE 6810-00-299-8508
Product ID:SODIUM CYANIDE MSDS Date:03/06/1995 FSC:6810 NIIN:00-299-8508 MSDS Number: BYVVM === Responsible Party === Company Name:MALLINCKRODT INC. SCIENCE PRODUCTS DIVISION Address:PARIS BYPASS Box:M City:PARIS State:KY ZIP:40361 Country:US Info Phone Num:314-982-5000 Emergency Phone Num:314-982-5000 CAGE:62910 === Contractor Identification ==
Company Name:MALLINCKRODT SPECIALTY CHEMICALS CO Address:222 RED SCHOOL LANE Box:City:PHILLIPSBURG State:NJ ZIP:08865 Country:US Phone:908-859-2151 CAGE:62910
======= Composition/Information on Ingredients ========
Ingred Name:SODIUM CYANIDE (SARA 302/313) (CERCLA) CAS:143-33-9 RTECS #:VZ7525000 Fraction by Wt: 100% OSHA PEL:5 MG(CN)/M3 ACGIH TLV:S, C 5 MG(CN)/M3; 95 EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS
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Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: EYE: CORROSIVE. SKIN:
CORROSIVE.MAY CAUSE SEVERE PAIN AND SKIN BURNS. DEEP ULCERS WHICH
HEAL SLOWLY. INGEST: HIGHLY TOXIC! CORROSIVE TO THE
GASTRO-INTESTINAL TRACT W/ BURNING IN MOUTH, ESOPHAGU S, AND

ABDOMINAL PAIN. INHALE: CORROSIVE TO THE RESPIRATORY TRACT.

INHIBITS CELLULAR RESPIRATION. CHRONIC: CYANIDE RASH.

Explanation of Carc

inogenicity:NONE OF THE CHEMICALS IN THIS PRODUCT IS LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.

es of Entry: Inhalation:YES Skin:YES Ingestion:YES

Effects of Overexposure:EYE: REDNESS, PAIN, BLURRED VISION, AND EYE DAMAGE. SKIN: SEVERE PAIN AND SKIN BURNS. INGEST: BURNING IN THE MOUTH AND ESOHAGUS, AND ABDOMINAL PAIN. MASSIVE DOSES - LOSS OF CONSCIOUSNESS AND DEATH FRO M RESPIRATORY ARREST. SMALLER DOSES-LETHAL AND PROLONG ILLNESS FOR ONE OR MORE HOUS. INHALE: CONVULSIONS, COMA, DEATH.

Medical Cond Aggravated by Exposu

re:WORKERS USING CYANIDES SHOULD HAVE

A PREPLACEMENT AND PERIODIC MEDICAL EXAM. THOSE WITH HISTORY OF CENTRAL NERVOUS SYSTEM, HEART OR LUNG DISEASES MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE CHEMICAL

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First Aid:INHALE: REMOVE SUBJECT TO FRESH AIR. DO NOT GIVE MOUTH-TO-MOUTH RESUSCITATION. EYE: FLUSH WITH PLENTY OF WATER FOR 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTH

ING AND W IPE OFF EXCESS. WASH WITH SOAP AND WATER. GET MEDICAL HELP IMME. INGESTION: A DEADLY POISON! GIVE WATER TO RINSE MOUTH THEN INDUCE VOMITING. REPEAT SEVERAL TIMES. GET MEDICAL ATTENTION IMMEDIATELY.

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

Flash Point: NON-FLAMMABLE

Extinguishing Media:WATER SPRAY CAN BE USED TO EXTINGUISH FIRES AND COOL FIRE-EXPOSED CONTAINERS. DO NOT USE CARBON DIOXIDE. Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOS

H APPROVED SCBA &

FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:WHEN HEATED WITH CHLORATES OR NITRITES TO 842 F MAY CAUSE AN EXPLOSION. UPON DECOMPOSITION OR CONTACT WITH ACIDS, KCN RELEASES FLAMMABLE HYDROGEN CYANIDE.

========= Accidental Release Measures =============

Spill Release Procedures: VENTILATE AREA OF LEAK OR SPILL. ALLOW ONLY QUALIFIED PERSONNEL TO H

ANDLE SPILL. WEAR CLOTHING AND RESPIRATORY

PROTECTION. COLLECT MATERIAL AND PLACE IN A CLOSED CONTAINER FOR RECOVERY OR DISPOSAL. DO NOT FLUSH TO SEWER!

Neutralizing Agent: SODIUM OR CALCIUM HYPOCHLORITE SOLUTION.

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

Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTILATED AREA. PROTECT FROM PHYSICAL DAMAGE. KEEP CONTAINERS CLOSED. SEPARATE FROM INCOMPATABILITIES.

Other Precautions:PROPER USE AND MAINT

ENANCE OF PROTECTIVE EQUIPMENT IS

ESSENTIAL. SPECIAL TRAINING SHOULD BE GIVEN TO WORKERS USING CYANIDE.

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

Respiratory Protection:IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL (TLV), USE NIOSH/MSHA APPROVED RESPIRATOR AS PER CURRENT 29 CFR 1910.134, INSTRUCTIONS/WARNINGS AND NIOSH-RESPIRATOR SELECTION.

Ventilation: A SYSTEM OF LOCAL AND/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EX

POSURES BELOW THE AIRBORNE EXPOSURE LIMIT.

Protective Gloves: IMPERVIOUS

Eye Protection: CHEMICAL SAFETY GOGGLES/SHIELD

Other Protective Equipment: SAFETY SHOWER AND EYE BATH. BOOTS, LAB COAT, APRON OR COVERALLS TO PREVENT SKIN CONTACT.

Work Hygienic Practices:WORKERS MUST CARFULLY FOLLOW GOOD HYGIENIC PRACTICES, INCLUDING NO EATING, DRINKING, OR SMOKING IN WORKPLACE. Supplemental Safety and Health

FOLLOWING ANY ROUTE OF EXPOSURE GET MEDICAL ATTENTION IMMEDIATELY. ADMINISTER AMYL NITRIT

E AMPULES BY PRE-PLANNED DIRECTIONS. ========= Physical/Chemical Properties =========== HCC:T2 Boiling Pt:B.P. Text:2725F,1496C Melt/Freeze Pt:M.P/F.P Text:1047F,564C Vapor Pres:1 Vapor Density:NIL Spec Gravity: 1.61 Evaporation Rate & Dr. Reference: NOT GIVEN Solubility in Water: APPRECIABLE Appearance and Odor: WHITE DELIQUESCENT GRANULAR SOLID WITH ALMONDS ODOR Percent Volatiles by Volume:NIL ======== Stability and Reactivity Data ========== Stability Indic ator/Materials to Avoid:YES ACIDS, NITRATES, NITRITES, CHLORATES, FLUORINE, MAGNESIUM, STRONG **OXIDIZERS** Stability Condition to Avoid:WATER, MOISTURE Hazardous Decomposition Products: EMITS TOXIC FUMES OF CYANIDE AND OXIDES OF NITROGEN WHEN HEATED TO DECOMPOSITION.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. CYANIDES MUST BE OXIDIZED TO HARMLE

SS WASTE BEFORE DISPOSAL. AN ALKALINE SOLUTION (PH @ 10) IS TREATED WITH CHLORINE OR COMMERCIAL BLEACH IN EXCESSTO DECOMP.

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