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## MALLINCKRODT BAKER, INC. -- SODIUM CYANIDE -- 6810-00-843-3643

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

Product ID:SODIUM CYANIDE

MSDS Date:11/17/1999

FSC:6810

NIIN:00-843-3643

Status Code:A

MSDS Number: CKWDZ === Responsible Party ===

Company Name: MALLINCKRODT BAKER, INC.

Address:222 RED SCHOOL LANE

City:PHILLIPSBURG

State:NJ

ZIP:08865-2219

Country:US

Info Phone Num:908-859-2151/800-582-2537

**Emerge** 

ncy Phone Num:(800)424-9300

Resp. Party Other MSDS Num.:S3458

Preparer's Name: STRATEGIC SERVICES DIV.

Chemtrec Ind/Phone:(800)424-9300

CAGE:70829

=== Contractor Identification ===

Company Name: MALLINCKRODT BAKER, INC.

Address:222 RED SCHOOL LANE

Box:City:PHILLIPSBURG

State:NJ ZIP:08865 Country:US

Phone:800-582-2537

CAGE:70829

Company Name:PHOENIX INDUSTRIES INC Address:1519 CHAMBERLAYNE PARKWAY

Box:City:RICHMOND

State:VA ZIP:23222 Country:US

Phone:804-264-5183/FAX: 264-5535

Contract Num: SP0450-

01-M-D258 CAGE:0YED2

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

Ingred Name: SODIUM CYANIDE

CAS:143-33-9

RTECS #:VZ7525000 Minumum % Wt:90. Maxumum % Wt:100. OSHA PEL:5 MG/M3 ACGIH STEL:C5 MG/M3 EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

LD50 LC50 Mixture:ORAL RAT LD50: 6440 UG/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards

Acute and Chronic:INHALATION: CORROSIVE TO RESPIRATORY
TRACT. INHIBITS CELLULAR RESPIRATION & MAY CAUSE BLOOD, CNS, &
THYROID CHANGES. MAY CAUSE WEAK & IRREGULAR HEART BEAT,
UNCONSCIOUSNESS, CONVULSIONS, COMA & DEATH. INGESTION: HIGHLY
TOXIC. CORROSIVE TO GASTROINTESTINAL TRACT. LARGER DOSES MAY
PRODUCE SUDDEN LOSS OF CONSCIOUSNESS & PROMPT DEATH FROM
RESPIRATORY ARREST. SKIN: CORROSIVE. MAY CAUSE SEVERE BURNS. M AY
BE ABSORBED THROUGH SKIN. EYES: MAY CAUSE DAMAGE.

**CHRONIC-**

PROLONGED OR REPEATED SKIN EXPOSURE MAY CAUSE A "CYANIDE" RASH & NASAL SORES.

Effects of Overexposure:INHALATION: MAY CAUSE HEADACHE, WEAKNESS, DIZZINESS, LABORED BREATHING, NAUSEA, & VOMITING. INGESTION: BURNING IN THE MOUTH & ESOPHAGUS, & ABDOMINAL PAIN. OTHER SYMPTOMS MAY BE SIMILAR TO THOSE NOTED FOR INHALATION EXPOSURE. SKIN: MAY CAUSE SEVERE PAIN & DEEP ULCERS WHICH HEAL SLOWLY. MAY BE ABSORBED THROUGH THE SKIN & CAUSE SYMPTOMS SIMILAR TO THOSE NOTED FOR

INHALATION. EYE: SYMPTOMS MAY INCLUDE REDNESS, PAIN, BLURRED VISION, & EYE DAMAGE.

Medical Cond Aggravated by Exposure: WORKERS USING CYANIDES SHOULD HAVE A PREPLACEMENT AND PERIODIC MEDICAL EXAM. THOSE WITH HISTORY OF CNS, THYROID, SKIN, HEART OR LUNG DISEASE MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS SUBSTANCE.

First Aid:IN CASE OF CYANIDE POISONING, START FIRST AID TREATMENT IMMEDIATELY, TH

EN GET MEDICAL ATTENTION. ADMINISTER ANTIDOTE KIT
(SEE SUPPLEMENTAL DATA) & OXYGEN PER PRE-PLANNED INSTRUCTIONS IF
SYMPTOMS OCCUR . INHALATION: REMOVE TO FRESH AIR. KEEP PATIENT
WARM & AT REST DO NOT GIVE MOUTH TO MOUTH RESUSCITATION. INGESTION
IF PATIENT IS CONSCIOUS, IMMEDIATELY GIVE ACTIVATED CHARCOAL
SLURRY. DO NOT INDUCE VOMITING. SKIN: IMMEDIATELY FLUSH WITH
PLENTY OF WATER FOR AT LEAST 15 MIN WHILE REMOVING CONTAMINATED
CLOTHING & SHOES. EYES: IMMEDIATELY FL
USH WITH PLENTY OF WATER FOR

Extinguishing Media:USE ANY MEANS SUITABLE FOR EXTINGUISHING SURROUNDING FIRE. DO NOT USE CARBON DIOXIDE. CARBON DIOXIDE CAN REACT WITH THIS MATERIAL IN THE PRESENCE OF MOISTURE.

Fire Fighting Procedures:IN THE EVENT OF A FIRE, WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE O

PERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE
PRESSURE MODE. WATER S PRAY MAY BE USED TO KEEP FIRE EXPOSED
CONTAINERS COOL. REACTS SLOWLY WITH WATER TO FORM HYDROGEN CYANIDE.

Unusual Fire/Explosion Hazard:UPON DECOMPOSITION OR CONTACT WITH ACIDS, THIS MATERIAL RELEASES HIGHLY FLAMMABLE & TOXIC HYDROGEN CYANIDE GAS. EXPLOSION: UPON HEATING WITH CHLORATES OR NITRITES TO 450C(842F) MAY CAUSE AN EXPLOSION. VIOLENT EXPLOSION OCCURS IF MELTED WITH NITRITE SALT. SEALED CONT

AINERS MAY RUPTURE WHEN HEATED.

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

Spill Release Procedures: VENTILATE AREA. QUALIFIED PERSONNEL ONLY TO HANDLE SPILL. CLEANUP PERSONNEL REQUIRE PROTECTIVE CLOTHING & RESPIRATORY PROTECTION FROM VAPORS. COLLECT MATERIAL & PLACE IN A CLOSED CONTAINER FOR RECOVER Y OR DISPOSAL. DO NOT FLUSH TO SEWER! DECONTAMINATE LIQUID OR SOLID RESIDUES IN SPILL AREA WITH SODIUM OR CALCIUM HYPOCHLORITE SOLUTION. REGULATIONS

(CERCLA) MAY REQUIRE REPORTING SPILLS & RELEASES.

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

Handling and Storage Precautions:KEEP IN A TIGHTLY CLOSED CONTAINER, STORED IN A COOL, DRY, VENTILATED AREA. PROTECT AGAINST PHYSICAL DAMAGE. SEPARATE FROM INCOMPATIBLES. WORKERS MUST CARFEULLY FOLLOW GOOD HYGIENE PRACTICES, INCLUDIN G NO EATING, DRINKING, OR SMOKING IN WORKPLACE.

Other Precautions:PROPER USE & MAINTENANCE OF PROTECTIVE EQUIPMENT IS ESS

ENTIAL. WORKERS USING CYANIDE NEED PREPLACEMENT & ANNUAL MEDICAL EXAMS. SPECIAL TRAINING SHOULD BE GIVEN TO WORKERS USING CYANIDE. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTY SINCE THEY RETAIN PRODUCT RESIDUES (DUST, SOLIDS); OBSERVE ALL WARNINGS.

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

Respiratory Protection:(NIOSH APPROVED):IF THE EXPOSURE LIMIT IS EXCEEDED, WEAR A SUPPLIED AIR, FULL-FACEPIECE RESPIRATOR, AIRLINED HOOD. OR FULL-FA

CEPIECE SELF-CONTAINED BREATHING APPARATUS. THIS SUBSTANCE HAS POOR WARNING PROPERTIES.

Ventilation: A SYSTEM OF LOCAL &/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURES BELOW THE AIRBORNE EXPOSURE LIMITS. LOCAL EXHAUST VENTILATION IS GENERALLY

Protective Gloves:WEAR IMPERVIOUS GLOVES AS APPROPRIATE, TO PREVENT SKIN CONTACT.

Eye Protection: USE CHEMICAL SAFETY GOGGLES &/OR FULL FACE SHIELD WHERE DUSTING OR SPLASHING OF

Other Protective Equipment:WEAR IMPERVIOUS PROT ECTIVE CLOTHING,

INCLUDING BOOTS, LAB COAT, APRON OR COVERALLS, AS APPROPRIATE, TO PREVENT SKIN CONTACT.

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

Supplemental Safety and Health

DISPOSAL CON'T: PROCESSING, USE OR CONTAMINATION OF THIS PRODUCT MAY CHANGE THE WASTE MANAGEMENT OPTIONS. STATE & LOCAL DISPOSAL REGULATIONS MAY DIFFER FROM FEDERAL DISPOSAL REGULATIONS. DISPOSE OF CO NTAINER & UNUS

ED CONTENTS IN ACCORDANCE WITH FEDERAL, STATE, & LOCAL REQUIREMENTS.

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

HCC:T2

Boiling Pt:=1496.C, 2724.8F Melt/Freeze Pt:=564.C, #####F Vapor Pres:1@817C(1503F) Spec Gravity:1.60@25C/4C pH:AQUEOUS SOLUTIO

Evaporation Rate & DIFORMATION FOUND

Solubility in Water:48G/100CC@10C(50F)

Appearance and Odor:WHITE DELIQUESCENT GRANULAR SOLID; ALMOND ODOR. BITTER ALMONDS.

Percent Volatiles by Volume:0

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====== Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES CARBON DIOXIDE, ACID, NITRATES, NITRITES, CHLORATES, FLUORINE, MAGNESIUM & STRONG OXIDIZERS. REACTS WITH ACIDS TO LIBERATE TOXIC & FLAMMABLE HYDROGEN CYANIDE GAS. WATER OR WEAK ALKALINE SOLUTIONS CAN PRODUCE DANGEROUS AMOUN Stability Condition to Avoid:VERY STABLE WHEN DRY. MOISTURE WILL CAUSE DECOMPOSITION, RELEASING POISONOUS HYDROGEN CYANIDE GAS. HEAT, MOISTURE, INCOMPATI BLES.
Hazardous Decomposition Products:EMITS TOXIC FUMES OF CYANIDE AND OXIDES OF NITROGEN WHEN HEATED TO DECOMPOSITION. Conditions to Avoid Polymerization:WILL NOT OCCUR.
======== Toxicological Information ==========
Toxicological Information:NOTE TO PHYSICIAN: IF PATIENT DOES NOT RESPOND TO AMYL NITRITE, INJECT INTRAVENOUSLY WITH 10ML OF A 3% SOLUTION OF SODIUM NITRITE AT A RATE OF NOT MORE THAN 2.5 TO 5 ML PER MINUTE. ONCE NITRITE ADMINI STRATION IS COMP
LETE, FOLLOW DIRECTLY WITH 50 ML OF A 25% SOLUTION OF SODIUM THIOSULFATE AT THE SAME RATE BY THE SAME ROUTE. GIVE VICTIM OXYGEN & KEEP UNDER OBSERVATION. IF EXPOSURE WAS SEVERE, WATCH VICTIM FOR 24-48 HOURS. IF SIGNS OF CYANIDE POISONING PERSIST OR REAPPEAR, REPEAT NITRITE & THIOSULFAT INJECTIONS 1 HOUR LATER IN 1/2 THE ORIGINAL DOSES. CYANOCABALAMIN (B12), 1 MG INTRAMUSCULARLY, MA Y SPEED RECOVERY.
======== Ecological Information ==========
Ec ological:EVIRONMENTAL FATE: NOT INFORMATION FOUND. ENVIRONMENTAL TOXICITY: THIS MATERIAL IS EXPECTED TO BE VERY TOXIC TO AQUATIC LIFE. THIS MATERIAL IS EXPECTED TO BE VERY TOXIC TO TERRESTRIAL LIFE.
======= Disposal Considerations =========
Waste Disposal Methods:CYANIDES MUST BE OXIDIZED TO HARMLESS WASTE BEFORE DISPOSAL. AN ALKALINE SOLUTION (PH ABOUT 10) IS TREATED WITH CHLORINE OR COMMERCIAL BLEACH IN EXCESS TO DECOMPOSE CYANIDE. WHEN CYAN

IDE-FREE, IT CAN BE NEUTRALIZED. WHATEVER CANNOT BE SAVED FOR RECOVERY OR RECYCLING SHOULD BE HANDLIED AS HAZARDOUS W ASTE & SENT TO A RCRA APPROVED WASTE FACILITY.
MSDS Transport Information

Transport Information:DOT: RQ, SODIUM CYANIDE, SOLID; HAZARD CLASS: 6.1; UN/NA: UN1689; PACKING GROUP: I. IMO: SODIUM CYANIDE, SOLID; HAZARD CLASS: 6.1; UN/NA: UN1689; PACKING GROUP: I.

SARA Title III Information:SODIUM CYANIDE: SARA 302: RQ 10, TPQ 100. SARA LIST- NO, CHEMICAL CATEGORY- CYANIDE COMPOUND. Federal Regulatory Information:SODIUM CYANIDE: TSCA- YES, CERCLA 10, RCRA 261.33- P106, TSCA 8(D)- NO.

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

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