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## MALLINCKRODT BAKER, INC. -- SODIUM NITROFERRICYANIDE -- 6810-00-148-7212

Product ID:SODIUM NITROFERRICYANIDE

MSDS Date:12/08/1996

FSC:6810

NIIN:00-148-7212 Status Code:A

MSDS Number: CLKLZ === Responsible Party ===

Company Name: MALLINCKRODT BAKER, INC.

Address:222 RED SCHOOL LANE

City:PHILLIPSBURG

State:NJ

ZIP:08865-2219

Country:US

Info Phone Num:800-582-2537/F

AX: 908-859-9318

Emergency Phone Num:(800)424-9300

Resp. Party Other MSDS Num.:MSDS NUMBER: S4490. (SEE SUPPL DATA)

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

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

Ingred Name:SODIUM NITROFERRICYANIDE

CAS:14402-89-2 RTECS #:LJ8750000 Minumum % Wt:90. ========= Hazards Identification ==============

LD50 LC50 Mixture:ANHYDROUS: LD50 ORAL (RAT):=99 MG/KG

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:DECOMPOSES ON CONTACT WITH BIOLOGICAL MATERIAL TO RELEASE FREE CYANIDE. IS LESS TOXIC ORALLY THAN INTRAVENOUSLY, BUT IS HIGHLY TOXIC. INHALATION: IRRITATES RESPIRATORY TRACT & SYSTEMIC POISONING LIKE INGESTION. INGESTION:TOXIC EFFECTS SIMILAR TO NITRAT

E POISONING. SKIN: MAY BE

ABSORBED THROUGH SKIN WITH TOXIC EFFECTS LIKE INGESTION. EYE: MAY CAUSE IRRITATION, REDNESS & PAIN. CHRONIC: REPEATED EXPO SURE THROUGH ANY ROUTE MAY CAUSE SYMPTOMS SIMILAR TO IODISM OR BROMIDE INTOXICATION: SKIN RASHES, WEAKNESS, FATIGUE, NAUSEA, VOMITING, DIARRHEA & CONFUSION.

Explanation of Carcinogenicity:NONE PROVIDED BY MFR

Effects of Overexposure:PINK-RED SKIN COLOR OR BLUE WITHOUT OXYGEN.
REDDENING OF EYES & PUPIL DILATION, HEADACHE, VOMI

TING, COLIC &

DIARRHEA, MUSCULAR WEAKNESS, DIZZINESS, COLLAPSE, FALL IN BLOOD PRESSURE, CYANOSIS, CONVULSI ONS, COMA, RESPIRATORY PARALYSIS & DEATH DUE TO CIRCULATORY COLLAPSE. NAUSEA, DIARRHEA, ABDOMINAL PAIN. LARGE DOSES: SUDDEN LOSS OF CONSCIOUSNESS & PROMPT DEATH FROM RESPIRATORY ARREST. SMALLER BUT LE THAL DOSES MAY PROLONG ILLNESS FOR ONE OR MORE HOURS. BITTER ALMOND ODOR ON BREATH OR VOMITUS. SKIN: IRRITATION, REDNESS & PAIN. EYES: IRRITATION, RED NESS, PAIN.

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edical Cond Aggravated by Exposure:WORKERS USING CYANIDES SHOULD HAVE PREPLACEMENT& PERIODIC MEDICAL EXAM. THOSE WITH HISTORY OF CENTRAL NERVOUS SYSTEM, THYROID, SKIN, HEART, OR LUNG DISEASES MAY BE MORE SUSPECTIBLE TO EFFECTS OF PRODUCT

First Aid:FOR CYANIDE POISONING GIVE FIRST AID IMMEDIATELY THEN GET MED ATTENTION. HAVE CYANIDE ANTIDOTE KIT (AMYL NITRATE, SODIUM NITRATE & SODIUM THIOSULFATE) IN AREA. O

2 & AMYL NITRATE CAN BE GIVEN BY FIRST RESPONDER. HAVE VICTIM INHALE AMYL NITRATE FOR 15-30 SEC/MIN UNTIL SODIUM NITRATE & SODIUM THIOSULFATE CAN BE ADMINISTERED INTRAVENOUSLY. USE NEW AMYL NITRATE AMPOULE EVERY 3 MIN. IF CONSCIOUS W/SYMPT OMS GIVE O2. IF UNCONSCIOUS GIVE O2 & AMYL NITRATE BY POSITIVE PRESSURE RESPIRATOR. INHALATION: MOVE TO FRESH AIR. GIVE ANTIDOTE FOR SYMPTOMS. KEEP WARM/QUIET. DO NOT GIVE MOUTH TO MOUTH. INGESTION: G IVE ANTIDOTE & O2. SEE OTHER I NFO FIELD. 

Flash Point: NONE PROVIDED BY

Autoignition Temp: Autoignition Temp Text: NONE P

Lower Limits: NONE PROVIDE Upper Limits: NONE PROVIDE

Extinguishing Media: USE ANY MEANS SUITABLE FOR EXTINGUISHING SURROUNDING FIRE

Fire Fighting Procedures: NO CONSIDERED TO BE A FIRE HAZARD. IN THE EVENT OF A FIRE, WEAR FULL PROTECTIVE CLITHING AND NIOSH-APPROVED SELF CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN

THE PRESSURE DEMAND OR OT HER POSITIVE PRESSURE MODE. MAY EMIT TOXIC AND FLAMMABLE FUMES OF CYANIDE IF INVOLVED IN A FIRE. Unusual Fire/Explosion Hazard: NOT CONSIDERED TO BE AN EXPLOSION HAZARD.

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

Spill Release Procedures: VENTILATE AREA OF LEAK OR SPILL, KEEP UNNECESSARY AND UNPROTECTED PEOPLE AWAY FROM AREA OF SPILL, WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT AS SPECIFIED. SPILLS: PICK UP AND PLACE IN A

SUITABLE C ONTAINER FOR RECLAMATION OR DISPOSAL, USING A METHOD THAT DOES NOT GENERATE DUST. Neutralizing Agent: NOT APPLICABLE. SEE PHYSICIANS NOTE IN OTHER INFORMATION FIELD.

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

Handling and Storage Precautions: KEEP IN A TIGHTLY CLOSED CONTAINER. STORE IN COOL DRY WELL VENT AREA. PROTECT AGAINST PHYSICAL DAMAGE. KEEP FROM INCOMPATIBLES. FOLLOW GOOD HYGIENIC PRACTICES. NO EATING, DRINKING, SMOKING IN WORKPLAC

E. MAINTAIN/USE PROPER PROTECTIVE EQUIPMENT. GET PREPLACEMENT & ANNUAL EXAMS. GIVE SPECIAL TRAINING.

Other Precautions:EMPTY CONTAINERS CONTAIN DUST & ARE HAZARDOUS.
OBSERVE ALL WARNINGS. ALL PERSONS POTENTIALLY EXPOSED SHOULD BE
TRAINED IN IMMEDIATE FIRST AID USING OXYGEN & AMYL NITRATE. HAVE
ANTIDOTE KIT AVAILABLE. CHECK ANNUALLY FOR SHELF LIFE. IDENTIFY
HOSPITALS & EMS SQUADS TO HANDLE CYANIDE EMERGENCIES.

Respiratory Protection:IF THE EXPOSURE LIMIT IS EXCEEDED, WEAR A SUPPLIED AIR, FULL-FACEPIECE RESPIRATOR, AIRLINED HOOD, OR FULL-FACEPIECE SELF CONTAINED BREATHING APPARATUS. THIS SUBSTANCE HAS POOR WARNING PROPERTIES

Ventilation: A SYSTEM OF LOCAL AND/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURES BELOW THE AIRBORNE EXPOSURE LIMITS. LOCAL PREFFERED TO CONTROL EMISSIONS.

Protective Gloves:WEAR IMPERVIOUS GLOVES

Eye Protection: USE CHEMICAL SAFETY GOGGLES

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r Protective Equipment:WEAR IMPERVIOUS PROTECTIVE CLOTHING INCLUDING BOOTS, GLOVES, LAB COAT, APRON OR COVERALLS AS APPROPRIATE TO PREVENT SKIN CONTACT. MAINTAIN EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA

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

OTHER MSDS NO: CONT: PRODUCT CODES: J.T.BAKER: 3792. MALLINCKROTD: 7828

HCC:T3

Melt/Freeze Pt:M.P/F.P Text:NO INFORMATION FOUND Decomp Temp:Decomp Text:NONE PROVIDED BY MFR

Vapor Pres:NO INFORMATION FOUND

Vapor Density: NO INFORMA

Spec Gravity: NONE PROVIDED BY MFR

pH:NO INFORMATION

Viscosity: NONE PROVIDED BY MFR

Evaporation Rate & DIFORMATION FOUND

Solubility in Water:43 G/100 CC WATER@16C(61F

Appearance and Odor: RED TRANSPARENT CRYSTALS. ODORLESS

Percent Volatiles by Volume:0 Corrosion Rate:NONE PROVIDED

========= Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES STRONG ACIDS, STRONG OXIDIZERS Stability Condition to Avoid:HEAT, INCOMPATIBLES. STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE. Hazardous Decomposition Products:THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE: CARBON OXIDES, NITROGEN OXIDES, AND HYDROGEN CYANIDE.WHEN HEATED TO DECOMPOSITION OR COMES IN CONTACT WITH ACID OR ACID FUMES IT EMITS TOXIC FUMES OF CYA NIDES Conditions to Avoid Polymerization:WILL NOT OCCUR
=========== Toxicological Information ===========
Toxicological Information:ANHYDROUS: ORAL RAT LD50: 99 MG/KG. INVESTIGATED AS REPRODUCTIVE EFFECTOR.
========== Ecological Information ============
Ecological:NO INFORMATION FOUND ON ENVIRONMENTAL FATE OR TOXICITY.
======= Disposal Considerations ===========
Waste Disposal Methods:WHATEVER CANNOT BE SAVED FOR RECOVERY O R RECYCLING SHOULD BE MANAGED IN APPROVED WASTE FACILITY. ALTHOUGH NOT LISTED RCRA HAZARDOUS WASTE, MATERIAL MAY EXHIBIT ONE OR MORE CHARACTERISTICS OF HAZARDOUS WASTE & REQUIRE APPROPRIATE ANALYSIS TO DETERMINE SPECIFIC DISPOSAL REQUIREMENTS. PROCESSING, USE O R CONTAMINATION MAY CHANGE OPTIONS. FOLLOW REGS.
======== MSDS Transport Information ==========
Transport Information:DOT: TOXIC SOLID, INORGANIC, N.O.S. (SODIUM NITROFERRICYANIDE), 6.1, UN 3288, PG II, INFORMATION REPORTED FOR PRODUCT/SIZE: 500 G.
========== Regulatory Information ===========
SARA Title III Information:CYANIDE COMPOUNDS ARE SARA 313 CHEMICALS. SARA 311/312 CATEGORY: ACUTE, CHRONIC. Federal Regulatory Information:ON TSCA INVENTORY. State Regulatory Information:NOT PROVIDED
========== Other Information ============
Disclaimer (provided with this information by the compiling agencies):

BY MFR

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