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MALLINCKRODT INC., SCIENCE PRODUCTS DIVISION -- BORIC ACID -- 6810-00-153-0191

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

Product ID:BORIC ACID MSDS Date:11/27/1985

FSC:6810

NIIN:00-153-0191

MSDS Number: BDCVT === Responsible Party ===

Company Name: MALLINCKRODT INC., SCIENCE PRODUCTS DIVISION

Box:M City:PARIS State:KY ZIP:40361 Country:US

Info Phone Num:314-982-5000

Emergency Phone Num:314-982-5000

CAGE:62

910

=== 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:BORIC ACID

CAS:10043-35-3 RTECS #:ED4550000 OSHA PEL:NOT KNOWN ACGIH TLV:NOT KNOWN

========= Hazards Identification ================

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 2660MG/KG

Routes of Entry: In

halation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:INHAL:MAY CAUSE IRRITATION OF THE MUCOUS MEMBRANES OF THE RESPIRATORY TRACT.THIS COULD LEAD TO SYSTEMIC ABSORPTION.INGEST:FATAL DOSE REPORTED AT 5 TO >30GRAMS.EYES:MAY CAUSE IRRITATION.CHRONIC:MAY AFF ECT
KIDNEY,LIVER. Explanation of Carcinogenicity:RTECS CITES MUTATION AND REPRODUCTIVE EFFECTS REFERENCES FOR BORIC ACID.
Effects of Overexposure:INHAL
:NAUSEA,VOMITING,DIARRHEA,DROWSINESS,COMA,DEATH.C HRONIC:WEIGHT LOSS,VOMITING,DIARRHEA,SKIN RASH,CONVULSIONS,ANEMIA. Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN,EYE,LIVER,KIDNEY OR RESPIRATORY AILMENTS MAY BE AT INCREASED RISK FROM EXPOSURE.
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First Aid:SKIN:REMOVE CONTAMINATED CLOTHING;WASH WITH SOAP AND WATER.EYES:FLUSH WITH WATER FOR 15 MINUTES.INHAL:REMOVE TO FRESH AIR.GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED.INGEST:GET PROMPT QUALIFIED ME DICAL ATTENTION.IF CONSCIOUS GIVE WATEROR MILK AND INDUCE VOMITING BY STICKING FINGER DOWN THROAT.
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Flash Point:NONE Extinguishing Media:EXTINQUISH W. AGENT SUITABLE FOR SURROUNDING FIRE. Fire Fighting Procedures:USE A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT. Unusual Fire/Explosion Hazard:A MIXTURE OF POTASSIUM & BORIC ACID MAY EXPLODE ON IMPACT.
========= Accidental Release Measures ==========
Spill Release Procedures:VENTILATE AREA.USE PROPER RESPIRATORY AND PROTECTIVE EQUIPMENT.AVOID CREATING DUST.PICK UP AND PLACE IN PROPER CONTAINER FOR DISPOSAL.WASH SPILL AREA TO REMOVE SLIPPINESS Neutralizing Agent:NONE
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Handling and Storage Precautions:KEEP IN TIGHTLY CLOSED CONTNRS AT COOL,DRY, VENTILATED PLACE.PROTEC

T AGAINST PHY DAMAGE; CARBON STEEL OR ALUMINUM CONTAINERS ARE SUITABLE FOR STORAGE. Other Precautions: AVOID BREATHING DUST. USE W/ADEQUATE VENTILATION. KEEP CONTAINERS CLOSED.WASH THOROUGHLY AFTER HANDLING.AVOID SKIN,EYES & CLOTHING CONTACT; STAINLESS STEEL IS NEEDED FOR MOIST CONDITIONS. ===== Exposure Controls/Personal Protection ======== Respiratory Protection: WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE A NIOSH DUST/MIST REPIRATOR OR SELF-CO **NTAINED** BREATHING APPARATUS. FOR ESCAPE USE THE SCBA. Ventilation:LOCAL VENTILATION AT THE WORKSITE;MECHANICAL(GENERAL) VENTILATION TO MAINTAIN TLV/PEL. Protective Gloves: IMPERVIOUS Eye Protection: GOGGLES/FACE SHIELD Other Protective Equipment: FULL PROTECTIVE CLOTHING, SAFETY SHOWER, EYE WASH STATION. Work Hygienic Practices: WASH HANDS. SEPERATE WORK CLOTHES FROM STREET CLOTHES.LAUNDER WORK CLOTHES BEFORE REUSE.KEEP FOOD OUT OF THE WORK AREA. Supplemental Safety and Health NONE ======== Physical/Chemical Properties =========== HCC:N1 Boiling Pt:B.P. Text:DECOMPOSES Melt/Freeze Pt:M.P/F.P Text:365F,185C Spec Gravity: 1.43 pH:5@0.1M

Solubility in Water: COMPLETE

Appearance and Odor:POWDER OR GRANULES:WHITE:NO ODOR

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

Stability Indicator/Materials to Avoid:YES

POTASSIUM, ACETIC ANHYDRIDE, ALKALIS, CARBONATES AND HYDROXIDES. BORIC ACID IS CORROSIVE TO IRON.

Stability Condition to Avoid:MOI

STURE Hazardous Decomposition Products:BORON OXIDE WHEN HEATED TO DECOMPOSITION

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

Waste Disposal Methods:RECLAIM DRY MATERIAL FOR SALVAGE OR REUSE.
UNSALVAGEABLE WASTE MAY BE SENT TO A RCRA APPROVED LANDFILL.ENSURE
COMPLIANCE WITH LOCAL,STATE & FEDERAL REGULATIONS.

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