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MALLINCKRODT INC SCIENCE PRODUCTS DIVISION -- SODIUM HYDROXIDE SOLUTION 50% -- 6810-01-051-3050

Product ID:SODIUM HYDROXIDE SOLUTION 50% MSDS Date:04/06/1989 FSC:6810 NIIN:01-051-3050 MSDS Number: BQFCM === 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

Ingred Name:SODIUM HYDROXIDE (SARA III) CAS:1310-73-2 RTECS #:WB4900000 Fraction by Wt: 50% % Other REC Limits:NONE RECOMMENDED OSHA PEL:2 MG/M3 ACGIH TLV:C 2 MG/M3; 9293 EPA

Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS
Ingred Name:WATER CAS:7732-18-5 RTECS #:ZC0110000 Fraction by Wt: BALANCE Other REC Limits:NONE RECOMMENDED
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:SEVERE RESPIRATORY TRACT IRRITATION, SEVERE PNEUMONITIS, GASTROINTESTINAL BURNS/IRRITATION, SKIN IRRITATION/BURNS, SEVERE EYE BURN S, BLINDNESS.
Explanation of Carcinogenicity:PRODUCT CONTAINS NO INGREDIENTS CURRENTLY CLASSIFIED AS CARCINOGENIC BY NTP, IARC OR OSHA. Effects of Overexposure:EFFECTS FROM INHALATION OF MIST VARY FROM MILD IRRITATION TO SERIOUS DAMAGE OF UPPER RESPIRATORY TRACT DEPENDING ON SEVERITY OF EXPOSURE. SWALLOWING MAY CAUSE SEVERE BURNS OF MOUTH, THROAT, AND STOMAC H. SEVERE SCARRING OF TISSUE MAY RESULT.SKIN CONTACT CAN CAUSE SEVERE BURNS AND SCARRING. EYE CONTACT - BURNS/BLIND
NESS Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF SUBSTANCE.
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First Aid:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. INGESTION: DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WA TER OR MILK IF AVAILABLE. GET MEDICAL ATTENTION IMMEDIATELY. SKIN/EYES: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. CALL PHYSICIAN IMMEDIATELY.
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Flash Point:NONFLAMMABLE Autoignition Temp:Autoignition Temp Text:NONE Lower Limits:NOT GIVEN Upper Limits:NOT GIVEN Extinguishing Media:USE ANY MEANS SUITABLE FOR EXTINGUISHING FIRE. ADDING WATER TO CAUSTIC SOLUTION GENERATES LARGE AMOUNTS OF HEAT.

Fire Fighting Procedures:WEAR FULL P

ROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND MODE. Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

Spill Release Procedures: VENTILATE AREA OF LEAK OR SPILL. CLEAN-UP PERSONNEL REQUIRE PROTECTIVE CLOTHING. CONTAIN AND RECOVER LIQUID WHEN POSSIBLE. ABSORB WITH VERMICULITE, DRY SAND, EARTH OR SIMILAR MATERIAL. DO NOT

FLUSH TO SEWER. FLOOR AND OTHER SURFACES MAY BESLIPPERY.

Neutralizing Agent: DILUTE ACIDS

Handling and Storage Precautions: KEEP IN TIGHTLY CLOSED CONTAINER. PROTECT FROM PHYSICAL DAMAGE. STORE IN A COOL, DRY, VENTILATED AREA AWAY FROM SOURCES OF HEAT, MOISTURE.

Other Precautions: ALWAYS ADD THE CAUSTIC TO WATER WHILE STIRRING; NEVER THE REVERSE. REMOVE CONTAMINATED CLOTHING AND SHOES.

Respiratory Protection: IF TLV IS EXCEEDED, A DUST/MIST RESPIRATOR WITH CHEMICAL GOGGLES MAY BE WORN, IN GENERAL, UP TO TEN TIMES THE TLV. CONSULT RESPIRATOR SUPPLIER FOR LIMITATIONS. ALTERNATIVELY. USE SUPPLIED AIR FULL FA CEPIECE RESPIRATOR OR AIRLINED HOOD. Ventilation: LOCAL EXHAUST VENTILATION IS GENERALLY PREFERRED BECAUSE IT CAN CONTROL THE EMISSIONS AT THE SOURCE. Protective Gloves: IMPERVIOUS Eye Protection: SAFETY GOGGLES/FACE SHI ELD Other Protective Equipment: IMPERVIOUS CLOTHING, INCLUDING BOOTS, LAB COAT, APRON OR COVERALLS. MAINTAIN EYEWASH FOUNTAIN AND QUICK-DRENCH FACILITY. Work Hygienic Practices: WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT AND BEFORE EATING DRINKING OR SMOKING. Supplemental Safety and Health NONE SPECIFIED BY MANUFACTURER.

HCC:B1 Boiling Pt:=145.C, 293.F Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN Vapor Pres:13 Vapor D ensity:NOT GIVEN Spec Gravity:1.53 pH:14 Viscosity:NOT GIVEN Evaporation Rate & amp; Reference:NOT GIVEN Solubility in Water:COMPLETE Appearance and Odor:CLEAR, COLORLESS SOLUTION, NO ODOR

Stability Indicator/Materials to Avoid:YES ACIDS, ORGANIC HALOGEN COMPOUNDS, ESPECIALLY TRICHLOROETHYLENE, NITROMETHANE, ALUMINUM, TIN, ZINC Stability Condition to Avoid:MOISTURE, WATER Hazardous Decomposition Products:SODIUM OXIDE. CONTA CT WITH ALUMINUM, TIN AND ZINC CAUSE FORMATION OF FLAMMABLE HYDROGEN GAS.

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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