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

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

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 N um: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 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

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

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 BURNS

, 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/BLINDN**

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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.

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.

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

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 PR

OTECTIVE 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.
========== Accidental Release Measures =============
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 F LUSH TO SEWER. FLOOR AND OTHER SURFACES MAY BESLIPPERY.
Neutralizing Agent:DILUTE ACIDS
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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.
====== Exposure Con
trols/Personal Protection ========
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 SHIE LD
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.
=========== Physical/Chemical Properties =============

HCC:B1

Vapor Pres:13 Vapor De

Boiling Pt:=145.C, 293.F Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN nsity:NOT GIVEN Spec Gravity:1.53 pH:14

Viscosity:NOT GIVEN

Evaporation Rate & Dr. Reference: NOT GIVEN

Solubility in Water: COMPLETE

Appearance and Odor: CLEAR, COLORLESS SOLUTION, NO ODOR

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

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. CONTAC

T WITH ALUMINUM,

TIN AND ZINC CAUSE FORMATION OF FLAMMABLE HYDROGEN GAS.

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

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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