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MALLINCKRODT INC. SCIENCE PRODUCTS DIVISION -- NITRIC ACID, 70% -- 6810-00-130-1912

Product ID:NITRIC ACID, 70%

MSDS Date:04/06/1989

FSC:6810

NIIN:00-130-1912

MSDS Number: CDQKY === 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:800-354-2050(PRESS 3

)/314-982-5000

Emergency Phone Num:800-354-2050/314-539-1600

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

Company Name: WARDS NATURAL SCIENCE ESTABLISHMENT INC

Address:5100 W HENRIETTA RD

Box:92912

City:ROCHESTER

State:NY

ZIP:14692-9012 Country:US

Phone: (716) 359-2502

CAGE:63759

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

Ingred Name:NITRIC ACID (SARA 302/313) (CERCLA) CAS:7697-37-2

RTECS #:QU5775000 Fraction by Wt: 70%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:2 PPM

ACGIH TLV:2 PPM/4 STEL; 9596

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:INHALATION (RAT) LC50: 244 PPM Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: I NHALATION OF VAPORS MAY CAUSE

BREATHING DIFFICULTIES, PNEUMONIA, PULMONARY EDEMA. INGESTION MAY CAUSE BURNS TO MOUTH/THROAT/ESOPHAGUS/STOMACH/GI TRACT. CONTACT MAY CAUSE BURNS TO SKIN & EYES. CHRONIC: PROLONGED/REPEATED EXPOSURE MAYCAUSE EROSION OF TEETH.

Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1% OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.

Effects of Overexposure:INHALED-COUGHING, CHOKING, IRRITATION OF NOSE/THROAT/RESPIRAT

ORY TRACT. EYES-PAIN, BURNS, PERMANENT EYE

DAMAGE. SKIN-REDNESS, PAIN, SEVERE SKIN BURNS, DEEP ULCERS, YELLOW TO YELLOW-BROWN STAIN TO SKIN . INGESTED-PAIN, BURNS TO MOUTH/THROAT/ESOPHAGUS/STOMACH/GI TRACT.

Medical Cond Aggravated by Exposure:PRE-EXISTING SKIN DISORDERS OR EYE DISEASE MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS SUBSTANCE.

First Aid:IN ALL CASES GET IMMEDIATE MEDICAL ATTENTION. EYES-FLUSH WI

WATER FOR 15 MINUTES, LIFT LIDS. SKIN-REMOVE CONTAMINATED CLOTHES. WASH WITH MILD SOAP & WATER. INHALED-REMOVE TO FRESH AIR. GIVE OXYGEN O R ARTIFICIAL RESPIRATION AS NEEDED. INGESTED-DO NOT INDUCE VOMITING! IF CONSCIOUS, GIVE LOTS OF WATER.

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

Flash Point: NON-COMBUSTIBLE Extinguishing Media: WATER SPRAY.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL FIRE FIGHTER'S PROTECTIVE GEA

R. Unusual Fire/Explosion Hazard:OXIDIZER! REACTS EXPLOSIVELY WITH COMBUSTIBLE, ORGANIC OR READILY OXIDIZABLE MATEIRALS. HEAT OF REACTION MAY CAUSE IGNITION. CAN REACT W/METALS TO RELEASE H2.
======== Accidental Release Measures ==========
Spill Release Procedures:ISOLATE SPILL AREA. WEAR PROPER PERSONAL PROTECTIVE GEAR/EQUIPMENT. FLUSH WITH WATER & NEUTRALIZE WITH ALKALINE MATEWRIAL (SODA ASH, LIME, ETC.). PICK UP WITH ABSORBENT AND DISPOSE OF AT A RCRA-PERMIT TED SITE. CERCLA RQ=1000 LBS. Neutralizing Agent:SODA ASH, LIME, ALKALINE MATERIALS.
============== Handling and Storage ===============
Handling and Storage Precautions:STORE IN A COOL, DRY, WELL-VENTILATED PLACE AWAY FROM INCOMPATIBLE MATERIALS. KEEP CONTAINER TIGHTLY CLOSED. PROTECT CONTAINER FROM PHYSICAL DAMAGE. Other Precautions:PROTECT FROM MOISTURE. KEEP OUT OF DIRECT SUNLIGHT.
====== Exposure Controls/Personal Protection ========
Respira tory Protection:IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 CFR 1910.134. Ventilation:USE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV(S). Protective Gloves:IMPERVIOUS: NEOPRENE, PVC. Eye Protection:CHEMICAL SPLASH GOGGLES + FACESHIELD. Other Protective Equipment:EYE WASH STATION & SAFETY SHOWER. LAB COAT, BOOTS, APRON OR COVERALLS TO PREVENT SKIN CONTACT. Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE. Supplemental Safety and Health MSDS PRESENTED BY CAGE 63759 FOR CONTRACT NUMBER MDA414-97-D4522.
======== Physical/Chemical Properties ==========
HCC:C1 Boiling Pt:=122.2C, 252.F Melt/Freeze Pt:=-33.9C, -29.F Vapor Pres:62 Vapor Density:2-3 Spec Gravity:1.41 Evaporation Rate & Display to the second se

Solu

bility in Water:COMPLETE
Appearance and Odor:CLEAR, COLORLESS TO LIGHT YELLOW LIQUID;
SUFFOCATING ACRID ODOR.

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

Stability Indicator/Materials to Avoid:YES

STRONG ALKALIS, METALLIC POWDERS, CARBIDES, HYDROGEN SULFIDE, TURPENTINE, COMBUSTIBLE ORGANICS.

Stability Condition to Avoid: CONTAINERS MAY BURST WHEN HEATED.

Hazardous Decomposition Products:TOXIC NITROGEN OXIDES FUMES & HYDROGEN NITRATE FUMES. REACTION W/WATER OR

STEAM PRODUCES HEAT &

TOXIC/CORROSIVE FUMES.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS. SARA EHS (302)-RQ/TPQ, 1000 LB; SARA 313-YES; CERCLA 103-RQ 1000 LBS. RCRA SEC 261.33.

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