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Product ID: ETHYL ETHER MSDS Date:02/15/1989 FSC:6505 NIIN:00-153-8225 MSDS Number: BRKSD === 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 Nu** m: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: ETHYL ETHER (SARA III) CAS:60-29-7 RTECS #:KI5775000 Other REC Limits:NONE DETERMINED OSHA PEL:400 PPM/500 STEL ACGIH TLV:400PPM/500STEL; 9192 EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 1215 MG/KG Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:INHALATION-IRRITANT. GENERAL ANESTHESIA BY INHALATION. CONTINUED EXPOSURE MAY LEAD TO RESPIRATORY FAILURE OR DEATH. INGESTION-IRRITATING TO THE MUCOUS MEMBRANES. INGESTION OF 1-2 OUNCES MAY BE FATAL. SKIN-IRRITATING TO THE SKIN & MUCOUS MEMBRANES. EYE-MAY CAUSE IRRITATION. PROLONGED

EXPOSURE CAN CAUSE EYE DAMAGE.

Explanation of Carcinogenicity:NOT CARCINOGENIC.

Effects of Overexposure:INHALATION-IRRITATION OF NOSE & THROAT, VOMITING & IRREGULAR RESPIRATION, FOLLOWED BY DIZZINESS, DROWSINESS & UNCONSCIOUSNESS. INGESTION-THE STOMACH BECOMES DISTENDED, WHICH CAUSE BELCHING, VOMITING, UNCONSCIOUSNESS & COMA. PROLONGED EXPOSURES MAY RESULT IN HEADACHE, DROWSINESSM EXCITATION AND PSYCHIC DISTURBANCES.

Medica

I Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS OR IMPAIRED LIVER, KIDNEY OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS SUBSTANCE.

First Aid:INHALATION-REMOVE TO FRESH AIR. IF NOT BREATHING PERFORM CPR. IF HARD TO BREATH, GIVE OXYGEN. CALL PHYSICIAN. INGESTION-INDUCE VOMITING BY GIVING 2 GLASSES OF WATER & STICKING FINGER DOWN THROAT. CALL PH

YSICIAN. SKIN-WASH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MIN. GET MEDICAL ATTENTION. EYE-WASH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MIN. CALL A PHYSICIAN.

Flash Point Method:CC Flash Point:-49F,-45C Autoignition Temp:Autoignition Temp Text:160C Lower Limits:1.9 Upper Limits:36.0 Extinguishing Media:DRY CHEMICAL, FOAM OR CARBON DIOXIDE. TREAT AS A FLAMMABLE GAS IN A FIRE SITUATION. USE WATER TO COOL EXPOSED

CONTAINERS

Fire Fighting Procedures:IN THE EVENT OF A FIRE, WEAR FULL PROTECTIVE CLOTHING & NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND. Unusual Fire/Explosion Hazard:ABOVE FLASH POINT, VAPOR-AIR MIXTURES ARE EXPLOSIVE WITHIN FLAMMABLE LIMITS. MAY FORM EXPLOSIVE PEROXIDES ON LONG STANDING OR AFTER EXPOSURE TO AIR OR LIGHT.

Spill Release Procedures:R

EMOVE ALL SOURCES OF IGNITION. VENT AREA. USE RESP PROTECTION & PROTCTV CLOTHG. CONTAIN AND RECOVER LIQUID WHEN POSSIBLE. ABSORB WITH VERMICULITE, DRY SAND, EARTH OR SIMILIAR MATERIAL. SCOOP UP WITH NONSPARKING TOOLS & PLACE IN A CLOSED CONTAINER.

Handling and Storage Precautions:PROTCT AGAINST PHYSICAL DAMAGE. OUTSIDE OR DETACHED STORAGE PREFERRED. INSIDE STORAGE SHOULD BE STANDARD FLAMMABLE LIQUID ST

ORAGE ROOM OR CABINET.

Other Precautions:SEPERATE FROM OXDIZING MATERIALS. STORAGE & USE SHOULD BE NO SMOKING AREAS. ISOLATE FROM OTHER COMBUSTIBLE MATERIAL. PROTECT FROM DIRECT SUNLIGHT.

======= Exposure Controls/Personal Protection ===============

Respiratory Protection: IF THE TLV IS EXCEEDED A FULL FACEPIECE CHEMICAL CARTRIDGE RESPIRATOR MAY BE WORN UP TO THE MAXIMUM USE CONCENTRATION SPECIFIED BY THE RESPIRATOR. ALTERNATIVELY, A SUPPLIED AIR FULL FACEPIECE RESPIRA T OR OR AIRLINED HOOD MAY BE

WORN.

Ventilation: A SYSTEM OF LOCAL AND/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURE BELOW EXPOSURE LIMITS.

Protective Gloves:WEAR PROTECTIVE GLOVES.

Eye Protection: USE CHEMICAL SAFETY GOGGLES.

Other Protective Equipment:WEAR CLEAN BODY COVERING.

Work Hygienic Practices: MAINTAIN EYE WASH FOUNTAIN AND QUICK DRENCH FACILITIES IN WORK AREA.

Supplemental Safety and Health

DANGER! DO NOT OPEN UNLESS CONTENTS ARE AT ROOM TEMPERATURE (72F) OR

BELOW. ALLOW ATLEAST 24 HOURS FOR MATERIAL TO COOL TO ROOM TEMPERATURE BEFORE OPENING CONTAINER. DANGER! EXREMELY FLAMMABLE. HARMFU L IF SWALLOWED OR INHALED.

HCC:F2 Boiling Pt:B.P. Text:95.0F,35.0C Melt/Freeze Pt:M.P/F.P Text:-189F,-123C Vapor Pres:422 MMHG Vapor Density:2.6 Spec Gravity:0.71 Evaporation Rate & amp; Reference:37.5 (BU-AC=1) Solubility in Water:7.5 GM/100 GM WATER. Appearance and Odor:COLORLESS LIQUID. SWEET, ETHEREAL ODOR.

Stability Indicator/Materials to Avoid:YES

CAN REACT DANGEROUSLY WITH ACETYL PEROXIDE, LIQUID AIR, BROMOAZIDE, CHLORINE, AND STRONG OXIDIZERS SUCH AS NITRATES.
Stability Condition to Avoid:HEAT, LIGHT & LONG STANDING CONTRIBUTE TO INSTABILITY. REACTS ITH AIR TO FORM EXPLOSIVE PEROXIDES.
Hazardous Decomposition Products:TOXIC GASES AND VAPORS SUCH AS CARBON MONOXIDE MAY BE RELEASED IN A FIRE.

Waste Disposal Methods:COLLECT SPILLS & DISSOLVE IN AN ALCOHOL OF GREATER MOLCULAR WEIGHT THAN BUTYL ALCOHOL, THEN ATOMIZE IN AN RCRA APPROVED COMBUSTION CHAMBER. ETHER SHOULD NOT BE FLUSHED TO SEWER BECAUSE OF THE POSSIBIL ITY OF AN EXPLOSION; ENSURE COMPLIANCE.

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