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Product ID:MONOETHANOLAMINE MSDS Date:04/06/1989 FSC:6810 NIIN:00-922-0866 MSDS Number: BMTXT === 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:06AP9 === Contractor Identification === Company Name: MALLINCKRODT INC SCIENCE PRODUCTS DIVISION Address: PARIS BYPASS Box:City:PARIS State:KY ZIP:40361 Country:US Phone:314-982-5000 CAGE:06AP9 Ingred Name:ETHANOLAMINE CAS:141-43-5 RTECS #:KJ5775000 Fraction by Wt: 100% Other REC Limits:NONE SPECIFIED **OSHA PEL:3 PPM/6 STEL** ACGIH TLV:3 PPM/6 STEL; 9192 ================== Hazards Identification

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 2100 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-VAPORS MAY CAUSE IRRITATION

TO THE RESPIRATORY TRACT. EXPOSURE TO HIGHER CONCENTRATIONS MAY CAUSE PULMONARY IRRITATION, KIDNEY & LIVER DAMAGE. INGESTION-MAY CAUSE SYSTEMIC POISIONING. SKIN- MAY CAUSE IRRITATION. EYE-VAPORS & CONTACT MAY CAUSE SEVERE IRRITATIO

N. CHRONIC: SKIN-MAY CAUSE

DERMATITIS.

Explanation of Carcinogenicity: THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Effects of Overexposure:INHALATION-SORE THROAT, COUGHING, RESPIRATORY DISTRESS, HEADACHE, LETHARGY AND NARCOSIS. INGESTION-MAY CAUSE MUCOSAL BURNS OF THE MOUTTH & ESOPHAGUS, ABDOMINAL PAIN, NAUSEA AND VOMITING. SKIN-REDNESS AND PAIN. EYE-BURNS, REDNESS, PAIN AND BLURRED VISION.

Me

dical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS OR IMPAIRED LIVER, KIDNEY AND PULMONARY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS MATERIAL.

First Aid:EYES: WASH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MIN. GET MEDICAL ATTENTION IMMEDIATELY. SKIN: FLUSH SKIN WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING. CALL PHYSICIAN. INHALATION: REMOVE TO FRE SH AIR. IF NOT BR

EATHING OR HARD TO BREATH, PERFORM CPR OR GIVE OXYGEN. CALL PHYSICIAN. INGESTION: INDUCE VOMITING IMMEDIATELY BY GIVING 3 GLASS OF WATER/MILK & STICKING FINGER DOWN THROAT. CALL DOC.

Flash Point Method:CC Flash Point:185F,85C Autoignition Temp:Autoignition Temp Text:780C Lower Limits:5.5% Upper Limits:17% Extinguishing Media:WATER SPRAY, DRY CHEMICAL, ALCOHOL FOAM OR CARBON DIOXIDE. WATER SPRAY MAY BE UASED TO KEEP FIRE EXPOSED CONTAINERS COOL

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING & NIOSH-APPROVED SELF CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE MODE.

Unusual Fire/Explosion Hazard:ABOVE FLASH POINT, VAPOR0AIR MIXTURES ARE EXPLOSIVE WITHIN FLAMMABLE LIMITS. WATER MAY BE USED TO FLUSH SPILLS AWAY FROM EXPOSURE & TO DILUTE TO SPILLS.

Spill Rel

ease Procedures:VENT AREA. REMOVE IGNITION SOURCES. PERSONNEL SHOULD WEAR PROTECTIVE CLOTHING/ RESPIRATORS. SPILL MAY BE ABSORBED WITH PAPER TOWELS, PLACED IN A METAL PAN, EVAPORATED IN AFUME HOOD & CONTANERIZED FOR DISPOSAL IN AN APPROVED WASTE DISPOSAL FACILITY.

Handling and Storage Precautions: KEEP IN A TIGHTLY CLOSED CONTAINER. STORE IN A COOL, DRY, VENTILATED AREA AWAY FROM SOURCES OF HEAT OR IGNIT

ION. PROTECT AGAINST PHYSICAL DAMAGE.

Other Precautions: AVOID CONATCT WITH COPPER OR ALLOYS. TEA IS SUITABLY HANDLED IN STAINLESS STEEL EQUIPMENT. DO NOT USE ALUMINUM FOR STORAGE OF AQUEOUS SOLUTIONS. OUTSIDE OR DETACHED STORAGE IS PREFERRED. ISOLATE FROM ACIDIC MATERIALS.

Respiratory Protection: IF THE TLV IS EXCEEDED A FULL FACEPIECE CHEMICAL CARTRIDGE RESPIRATOR MAY BE WORN, IN GENERAL, UP TO 100 TIMES TYHE TLV. ALTERNATIVELY, A SUPPLIED AIR FULL FACEPIECE RESPIRATOR OR AIRLINED HOOD MAY BE WORN.

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

Protective Gloves: IMPERVIOS GLOVES

Eye Protection: CHEMICAL GOGGLES OR FACESHIELD

Other Protective Equipment:WEAR IMPERVIOUSPROTECTIVE CLOTHING, INCLUDING BOOTS, LAB COAT, APRONS OR COVERALLS TO PREVENT SKIN CONTACT.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING

AND BEFORE EATING, DRINKING OR SMOKING. Supplemental Safety and Health REPORTABLE QUANTITY: 1000 LBS.

HCC:F7 Boiling Pt:=170.C, 338.F Melt/Freeze Pt:=10.C, 50.F Vapor Pres:0.4 @ 20C Vapor Density:2.10 Spec Gravity:1.02 Evaporation Rate & amp; Reference: