View NSN Online: https://aerobasegroup.com/nsn/6810-00-281-2002 MALLINKRODT, INC -- TOLUENE -- 6810-00-281-2002 ============ Product Identification =========================

Product ID:TOLUENE MSDS Date:04/06/1989

FSC:6810

NIIN:00-281-2002

MSDS Number: BMZCX === Responsible Party ===

Company Name: MALLINKRODT, INC Address: SCIENCE PRODUCTS DIVISION

Box:M City:PARIS State:KY

ZIP:40361-0315

Country:US

Info Phone Num:314-982-5000

Emergency Phone Num:800-424-9300 (CHEMTREC)

CAGE:LO113

=== Co

ntractor Identification ===

Company Name: MALLINCKRODT INC., SCIENCE PRODUCTS DIV

Box:M City:PARIS State:KY

ZIP:40361-0315

Country:US

Phone:314-982-5000

CAGE:1BF21

Company Name: MALLINKRODT, INC Address: SCIENCE PRODUCTS DIVISION

Box:M City:PARIS State:KY

ZIP:40361-0315

Country:US

Phone:314-982-5000

CAGE:LO113

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

Ingred Name: TOLUENE (SARA III)

CAS:108-88-3

RTECS #:XS5250000 Fraction by Wt: 100.0%

Other REC Limits: NONE SPECIFIED

OS

HA PEL:200 PPM/150 STEL ACGIH TLV:50 PPM; 9293 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 5000 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:ACUTE:IRRITATION OF EYES, SKIN, RESPIRATORY OR G.I.TRACTS; CNS EFFECTS. BURNS OF EYES/SKIN POSSIBLE. CHRONIC:DRYING OF SKIN, DEFATTING OR DER

MATITIS; ANEMIA,

LIVER OR KIDNEY DAMAGE.

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

Effects of Overexposure:INHALATION: COUGHING, WHEEZING, SHORTNESS OF BREATH, DROWSINESS, DIZZINESS, HEADACHE. EYES: REDNESS, TEARING, BLURRED VISION. SKIN: REDNESS, BURNS, RASH, ITCHING. INGESTION: NAUSEA, VOMITING, DIARRHEA.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS OR

WITH A PRE-EXISTING DISEASE INVOLVING THE LIVER OR KIDNEY MAY BE AT INCREASED RISK FROM EXPOSURE.

First Aid:INHALATION:REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTION. EYES:IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOV E CONTAMINATED CLOTHING. WASH WITH SOAPAND WATER. IF IRRITATION PERSISTS, GET MEDICAL ADVICE. INGEST

VOMITING. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.

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

Flash Point Method:TCC Flash Point:40.0F,4.4C

ION:DO NOT INDUCE

Autoignition Temp: Autoignition Temp Text: 896F

Lower Limits:1.27% Upper Limits:7.1%

Extinguishing Media:DRY CHEMICAL, FOAM, OR CARBON DOXIDE. WATER MAY BE USED TO SUPPRESS VAPORS OR FLUSH LIQUID FROM EXPOSURES. Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPME

NT AND A

FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY. CONTAIN RUNOFF.

Unusual Fire/Explosion Hazard:FLASHBACK ALONG VAPOR TRAIL MAY OCCUR. VAPOR MAY EXPLODE, IF IGNITED IN AN ENCLOSED AREA.

======== Accidental Release Measures ============

Spill Release Procedures:REMOVE ALL SOURCES OF IGNITION. USE NON-SPARKING TOOLS. USE PROPER PERSONAL PROTECTION. CONTAIN FREE MATERIAL IF POSSIBLE. USE SUITABLE INERT ABSO

RBENT MATERIAL AND

RECOVER FOR PROPER DISPOSAL IN AN A PPROVED CONTAINER. DO NOT FLUSH TO SEWER.

Neutralizing Agent: NOT APPLICABLE.

========== Handling and Storage ==============

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED AREA. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT CONTAINERS FROM PHYSICAL DAMAGE.

Other Precautions:STORE OUTSIDE IN A STORAGE LOCKER. STORE AWAY FROM OXIDIZING MATERIALS. BOND AND GROUND DURING TRANSFER OPERATIONS.

USE NON-SPARKING TOOLS WHEN HANDLING. STORE IN NO SMOKING AREAS.

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

Respiratory Protection: USE NIOSH/MSHA APPROVED RESPIRATOR AS REQUIRED IF ABOVE PEL/TLV OR SCBA IN AN ENCLOSED AREA.

Ventilation:LOCAL/GENERAL TO MAINTAIN PEL/TLV.

Protective Gloves: NEOPRENE, NITRILE, OR NATURAL RUBBER

Eye Protection: SAFETY GOGGLES WITH OPTIONAL FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER ,WORK

CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Safety and Health

AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO NOT BREATHE VAPORS OR MISTS.

======== Physical/Chemical Properties ==========

HCC:F2

Boiling Pt:=110.6C, 231.F Melt/Freeze Pt:=-95.C, -139.F

Vapor Pres:22@20C Vapor Density:3.2

Spec

Gravity:0.86 Evaporation Rate & Deference:2.2(N-BUTYL ACETATE=1) Solubility in Water:NEGLIGIBLE Appearance and Odor:CLEAR, COLORLESS LIQUID WITH BENZENE-LIKE ODOR. Percent Volatiles by Volume:100
========= Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS, CONCENTRATED NITRIC OR SULFURIC ACID, HALOGENS OR MOLTEN SULPHUR, CERTAIN PLASTICS OR RUBBERS. Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER S OURCES OF IGNITION Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE AND OTHER UNIDENTIFIED COMPONENTS.
D: 10

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

Waste Disposal Methods:DISPOSAL MUST BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United State s of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.