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## MALLINCKRODT INC., SCIENCE PRODUCTS DIV -- TOLUENE -- 6810-00-290-0048

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

FSC:6810

NIIN:00-290-0048

MSDS Number: BMXGR === Responsible Party ===

Company Name: MALLINCKRODT INC., SCIENCE PRODUCTS DIV

Box:M City:PARIS State:KY

ZIP:40361-0315

Country:US

Info Phone Num:314-895-2000

Emergency Phone Num:314-982-5000

CAGE:1BF21

=== C

ontractor 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

====== 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 BY M.

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

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

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LD50 LC50 Mixture:LD50 (ORAL RAT) IS 5G/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 AND G.I.TRACTS. INGESTION:ABDOMINAL SPASMS, ASPIRATION INTO LUNGS MAY CAUSE CHEMICAL PNEUMONITIS, WHICH MAY BE FATAL. CHRONIC:DERMATITIS, ANEMIA, DECREASED BLOOD CELL COUNT, LIVER AND KIDNEY DAMAGE.

**Explanation of Carcinogenicity:NO** 

NE OF THE COMPOUNDS IN THIS PRODUCT IS

LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN PER MSDS

Effects of Overexposure:FATIGUE, CONFUSION, HEADACHE, DIZZINESS, NUMBNESS OF LIMBS, REDNESS AND TEARING OF EYES, SKIN IRRITATION., NAUSEA AND VOMITNG.

Medical Cond Aggravated by Exposure:SKIN, RESPIRATORY TRACT, BLOOD, LIVER AND KIDNEY.

First Aid:INHALATION:REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MED

ICAL ATTENTION. EYES:IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN:REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ADVICE. INGESTION:DO NOT INDUCE VOMITING. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.

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

Autoignition Temp: Autoignition T

emp Text:1000F Lower Limits:1.3 Upper Limits:7.1

Extinguishing Media: USE CARBON DIOXIDE, FOAM, DRY CHEMICAL, OR WATER FOG.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard: CONTAINERS MAY BURST WHEN EXPOSED TO HEAT OF FIRE. ABOVE FLASH POINT VAPOR-AIR MIXTURE IS EXPLOSIVE.

======= Accidental Release Meas

Spill Release Procedures:USE PROPER PERSONAL PROTECTION; REMOVE ALL IGNITION SOURCES; CONTAIN FREE LIQUID IF POSSIBLE; RECOVER BY PUMPING OR USE SUITABLE INERT ABSORBENT MATERIAL AND COLLECT FOR PROPER DISPOSAL.

Neutralizing Agent:NONE

========== 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:DO NOT TAKE INTERNALLY. DO NOT BREATHE MIST. AVOID PROLONGED OR REPEATED BREATHING OF VAPOR. AVOID CONTACT WITH EYES. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. FOR INDUSTRIAL USE ONLY.

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

Respiratory Protection: USE NIOSH APPROVED RESPIRATOR FOR ORGANIC VAPORS/MIST IF ABOVE PEL/TLV OR SCBA IN AN ENCLOSED AREA Ventilation: MECHANICAL (GENERAL) ROOM VENTILATION IS NORMALLY ADEQUATE.

LOCAL EXHAUST MAY BE REQUIRED IF WORK AREA NOT VENTED.

Protective Gloves: NEOPRENE, NITRILE, VPC OR NATURAL RUBBER

Eye Protection: SAFETY GOGGLES WITH OPTIONAL FACE SHIELD

Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER. INDUSTRIAL-TYPE 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 Vapor Pres:22 MMHG Vapor Density:3.2 Spec Gravity:0.86

Evaporation Rate & Properties | Evaporation Rate & Properties | Reference: 2.2(N-BUTYL ACETATE = 1)

Solubility in Water: NEGLIGIBLE

Appearance and Odor:CLEAR COLORLESS LIQUID, AROMATIC BENZENE-LIKE ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS, NITRIC AND SULFURIC ACIDS. Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS, OPEN FLAMES Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE.

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

Waste Disposal Methods: CONSULT LOCAL AUTHORITIES; DISPOSAL MUST BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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