

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

=== Contractor Identification ===

Company Name:MALLINCKRODT INC., SCIEN

CE PRODUCTS DIV

Box:M

City:PARIS

State:KY

ZIP:40361-0315

Country:US

Phone:314-982-5000

CAGE:1BF21

Company Name:MALLINKRODT, INC

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State:KY

ZIP:40361-0315

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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

OSHA PEL:200 PPM/150 STEL

ACGIH TLV:50 PPM; 9293

EPA Rpt Qty:1000 L

BS
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 DERMATITIS; ANEMIA,
LIVER OR KIDNEY DAMAGE.
Explanation of Carci
nogenicity: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 Measures =====

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. INGESTION:DO NOT INDUCE
VOMITING. GIVE NOTHING BY MOUTH IF UNCONSCI
OUS. GET IMMEDIATE
MEDICAL ATTENTION.

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

Flash Point Method:TCC
Flash Point:40.0F,4.4C
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 EQUIPMENT 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 ABSORBENT MATERIAL AND
RECOVER FOR PROPER DISPOSAL IN AN A PPROVE
D 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. S
TORE 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 & Reference: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 SOURCES
OF IGNITION
Hazardous Decomposition Products:CARBON MO
NOXIDE, CARBON DIOXIDE AND
OTHER UNIDENTIFIED COMPONENTS.

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

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

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