

MALLINCKRODT INC -- TETRAHYDROFURAN -- 6810-01-311-2543

===== Product Identification =====

Product ID:TETRAHYDROFURAN

MSDS Date:04/06/1989

FSC:6810

NIIN:01-311-2543

MSDS Number: BPZWM

=== Responsible Party ===

Company Name:MALLINCKRODT INC

Box:M

City:PARIS

State:KY

ZIP:40361-0315

Country:US

Info Phone Num:314-982-5000

Emergency Phone Num:314-982-5000

CAGE:1BF21

=== Contractor Identification ===

Co

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:TETRAHYDROFURAN (SARA III)

CAS:109-99-9

RTECS #:LU5950000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:200 PPM/250 STEL

ACGIH TLV:200 PPM/250STEL;9293

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:LDLO ORAL RAT=3000MG/KG;PEL=200PPM(TWA)

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and

Chronic:INHAL:ANETHETIC,IRRITANT.INGEST:IRRITATING TO THE MUCOUS  
MEMBRANES.MAY CAN LIVER OR KIDNEY

DAMAGE.SKIN:IRRITANT.EYES:IRRITANT. CHRONIC-NO DATA.

Explanation of Carcinogenicity:RTECS(92-3) CITES MUTAGENIC STUDIES.

Effects of Overexposure:INHAL:HEADACHE,IRRITATION OF THE NOSE AND  
THRAO

T,DIZZINESS.INGEST:SORE THROAT AND ABDOMINAL PAIN.SKIN:REDENSS  
AND PAIN.

Medical Cond Aggravated by Exposure:PRE-EXISTING SKIN OR EYE  
PROBLEMS,IMPAIRED LIVER OR KIDNEY FUNCTIONS.

===== First Aid Measures =====

First Aid:INHAL:REMOVE TO FRESH AIR.RESTORE OR ASSIST BREATHING IF  
NEEDED.CALL PHYSICIAN.INGEST:GET IMMEDIATE MEDICAL HELP.IF NOT  
AVAILABLE(AND CONSCIOUS),GIVE 2 GLASSES OF WATER,INDUCE VOMITING  
WITH FINGER DOW N THOAT(KEEP HEAD L

OWER THAN HIPS).SKIN:REMOVE  
CONTAMINATED CLOTHING.FLUSH WITH WATER FOR 15 MINUTES.EYES:FLUSH  
WITH WATER,HOLDING LIDS OPENED.GET IMMEDIATE MEDICAL HELP.

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

Flash Point Method:COC

Flash Point:6F,-14C

Autoignition Temp:Autoignition Temp Text:610F

Lower Limits:1.8

Upper Limits:11.8

Extinguishing Media:DRY CHEMICAL,FOAM OR CARBON DIOXIDE.WATER SPRAY CAN  
BE USED TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:USE

FULL PROTECTIVE CLOTHING AND A SCBA IN  
POSITIVE PRESSURE MODE.USE WATER SPRAY TO COOL FIRE EXPOSED  
CONTAINERS.

Unusual Fire/Explosion Hazard:EXPLOSIVE ORGANIC PEROXIDES FORM FROM  
AGING OR LIGHT.VAPOR CAN TRAVEL DISTANCES ALONG THE FLOOR AND FLASH  
BACK TO THE IGNITION SOURCE.

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

Spill Release Procedures:VENTILATE AREA.REMOVE SOURCES OF IGNITION.USE  
PROTECTIVE CLOTHING AND RESPIRATOR.USE NON-SPARKING  
EQUIPM

ENT.ADBSORB LIQUID WITH VERMICULITE, DRY SAND...PLACE IN AN APPROPRIATE CONTAINER FOR DISPOSAL.

Neutralizing Agent: NOT APPLICABLE.

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

Handling and Storage Precautions: KEEP CONTAINER CLOSED, AWAY FROM LIGHT, HEAT AND OXIDIZERS.

Other Precautions: NONE.

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

Respiratory Protection: 1-FULL FACEPIECE WITH CHEMICAL CARTRIDGE RESPIRATOR. 2-SCBA WITH FULL FACEPIECE OR AIR-LINED HOOD.

Ventilation: LOCAL (PREFERRED, BECAUSE IT CAN CONTROL THE EMISSION OF CONTAMINANTS) AND/OR GENERAL (MECHANICAL) EXHAUST.

Protective Gloves: RUBBER OR NEOPRENE

Eye Protection: SAFETY GOGGLES AND/OR SPLASH SHIELD

Other Protective Equipment: IMPERVIOUS BOOTS, APRON, COVERALLS. EYE WASH STATION AND QUICK DRENCH SHOWER SHOULD BE AVAILABLE.

Work Hygienic Practices: DO NOT WEAR CONTACT LENSES. WASH HANDS. KEEP FOOD OUT OF THE WORK AREA. USE PRUDENT HYGIENIC AND SANITARY PRACTICES.

Supplemental

Safety and Health

NONE.

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

HCC: F2

Boiling Pt: B.P. Text: 151F, 66C

Vapor Pres: 114MM 259F

Vapor Density: 2.5

Spec Gravity: 0.88

Evaporation Rate & Reference: 14.5

Solubility in Water: MISCIBLE

Appearance and Odor: LIQUID, MOBILE; COLORLESS; ETHER-LIKE ODOR

Percent Volatiles by Volume: 100

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

Stability Indicator/Materials to Avoid: YES

OXYGEN.

Stability Condition to A

void:LIGHT.KEEP CONTAINERS CLOSED;CONCENTRATION  
OF PEROXIDES (BY DISTILLATION,EVAPORATION) CREATES EXPLOSION  
HAZARD.

Hazardous Decomposition Products:IRRITATING AND TOXIC FUMES(EG. CARBON  
MONOXIDE).

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

Waste Disposal Methods:COLLECT AS HAZARDOUS WASTE,LABEL AND DISPOSE OF  
IN ACCORDANCE WITH FEDERAL,STATE AND LOCAL REGULATIONS.

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