

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

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Product Identification
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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 ===

Company Name:MALLINCKRODT INC., SCIENCE PRODUCTS DIV

Box:M

City:PARIS

State:KY

ZIP:40361-0315

Country:US

Phone:314-982-5000

CAGE:1BF21

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Composition/Information on Ingredients
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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

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Hazards Identification
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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
TH

RAOT,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 HEA

D LOWER 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
EQU

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

Neutralizing Agent:NOT APPLICABLE.

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

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

Other Precautions:NONE.

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===== 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 EMISION 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 HYGENIC AND SANITARY PRACTICES.

Supplemental Safety and Health
NONE.

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===== 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

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

Stability Indicator/Materials to Avoid:YES
OXYGEN.

Stability Condition t

o Avoid: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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