

MALLINCKRODT INC. SCIENCE PRODUCTS DIVISION -- METHYL ISOBUTYL KETONE --  
6810-00-052-1371

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

Product ID:METHYL ISOBUTYL KETONE

MSDS Date:04/06/1989

FSC:6810

NIIN:00-052-1371

MSDS Number: BJPWP

=== Responsible Party ===

Company Name:MALLINCKRODT INC. SCIENCE PRODUCTS DIVISION

Address:PARIS BYPASS

Box:M

City:PARIS

State:KY

ZIP:40361

Country:US

Info Phone Num:314-982-

5000

Emergency Phone Num:314-982-5000

CAGE:62910

=== Contractor Identification ===

Company Name:MALLINCKRODT SPECIALTY CHEMICALS CO

Address:222 RED SCHOOL LANE

Box:City:PHILLIPSBURG

State:NJ

ZIP:08865

Country:US

Phone:908-859-2151

CAGE:62910

Company Name:SANCHEZ & ASSOCIATES

Address:476 WEST FOGG STREET

Box:1649

City:COLTON (MAY BE OUT OF BUSINESS !)

State:CA

ZIP:92324

Country:US

Phone:714-370-3921/FAX824-0341 ALL WRONG#

CAGE:0HF19

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

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Ingred Name:METHYL ISOBUTYL KETONE (SARA III)  
CAS:108-10-1  
RTECS #:SA9275000  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:100 PPM/75 STEL  
ACGIH TLV:50 PPM/75 STEL; 9293  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 2080 MG/KG  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE-EYE:VAPORS MAY CAUSE  
USE  
IRRITATION.LIQUID MAY CAUSE SEVERE PAIN & IRRITATION.SKIN:MAY CAUSE  
IRRITATION & DISCOLORATION.INHALATION:MAY CAUSE IRRITATION TO  
RESPIRATORY TRACT.CONCENTRATION >TLV MAY CAUSE  
HEADACHE,DIZZINESS,NAUSEA & VOMITING.HIGHER CONCENTRATION MAY CAUSE  
CNS DEPRESSION & UNCONSCIOUSNESS.SEE SIGN & SYMP  
Effects of Overexposure:INGESTION:MAY CAUSE INFLAMMATION OF THE  
DIGESTIVE TRACT.LARGE DOSES MAY PRODUCE NARCOSIS.CHRONIC-PROLONGED  
SKIN CONTACT MAY REMOVE THE FAT OF THE SKIN  
AND PRODUCE DERMATITIS.  
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN OR  
EYE OR IMPAIRED LIVER AND KIDNEY OR RESPIRATORY DISORDERS MAY BE  
AGGRAVATED BY EXPOSURE TO THIS MATERIAL.

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

First Aid:CALL A PHYSICIAN.INHALATION:REMOVE TO FRESH AIR.GIVE  
OXYGEN/CPR IF NEEDED.EYE:FLUSH WITH WATER FOR 15 MINUTES HOLDING  
EYELIDS APART.SKIN:REMOVE ANY CONTAMINATED CLOTHING AND WASH SKIN  
WITH MILD SOAP & WATER.INGESTION:GET MEDICAL ATTENTION  
IMMEDIATELY.

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

Flash Point Method:CC  
Flash Point:73.0F,22.8C  
Autoignition Temp:Autoignition Temp Text:858F  
Lower Limits:1.4  
Upper Limits:7.5  
Extinguishing Media:CARBON DIOXIDE, FOAM, DRY CHEMICAL.USE WATER SPRAY  
TO COOL CONTAINERS EXPOSED TO FIRE.  
Fire Fighting Procedures:NIOSH-APPROVED SELF-BREATHING APPARATUS WITH  
ORGANIC VAPORS FILTER & FULL FACEPIECE OPERATED IN THE POS

ITIVE

PRESSURE MODE.

Unusual Fire/Explosion Hazard:VAPORS MAY TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION WHERE THEY MAY IGNITE,FLASH BACK OR EXPLODE.VAPORS ARE HEAVIER THAN AIR.CONTAINERS MAY EXPLODE.

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

Spill Release Procedures:RECOVER FREE PRODUCT.ADD SAND,EARTH OR OTHER SUITABLE ABSORBENT TO SPILL AREA.MINIMIZE BREATHING VAPORS.MINIMIZE SKIN CONTACT.OPEN ALL WINDOWS & DOORS.KEEP PRODUCT OUT OF SEWERS AND WATERCOURSES BY DI KING OR IMPOUNDING,OTHERWISE CALL AUTHORITIES.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN A COOL,DRY PLACE WITH ADEQUATE VENTILATION.KEEP AWAY FROM FLAMES,SPARKS,SUN LIGHT AND STRONG OXIDANTS.

Other Precautions:"EMPTY"CONTAINERS RETAIN RESIDUE.DO NOT PRESSURIZE,CUT,WELD,BRAZE,SOLDER,DRILL,GRIND OR EXPOSE THEM TO HEAT OR ANY OTHER SOURCES OF IGNITION.THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.CONTAINERS SHOULD BE BONDED & GROUNDED FOR TRANSFER.

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

Respiratory Protection:USE SUPPLIED-AIR RESPIRATORY PROTECTION IN CONFINED OR ENCLOSED SPACES OR A GAS MASK IF NEEDED.IF THE TLV IS EXCEEDED,USE A FULL FACEPIECE CHEMICAL CARTRIDGE RESPIRATOR.

Ventilation:USE LOCAL EXHAUST TO CAPTURE VAPOR,MISTS OR FUMES,IF NECESSARY.USE EXPLOSION PROOF VENTILATION APPARATUS.

Protective Gloves:CHEMICAL RESISTANT GLOVES

Eye Protection:SPLASH GOGGLES OR FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.CHEMICAL-RESISTANT APRON OR OTHER IMPERVIOUS CLOTHING.

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

Supplemental Safety and Health

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

HCC:F3

Boiling Pt.=118.C

, 244.4F

B.P. Text:244F,118C

Melt/Freeze Pt:=-80.C, -112.F

Vapor Pres:16

Vapor Density:3.45

Spec Gravity:0.803

Evaporation Rate & Reference:1.62 (N-BUTYL ACETATE=1)

Solubility in Water:ALMOST INSOLUBLE

Appearance and Odor:CLEAR COLORLESS LIQUID,SWEET,ACETONE-LIKE ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

NITRIC ACID, ALDEHYDES, PERCHLORIC ACID. VIOLENT REACTION WITH  
POTASSIUM-TERT-  
BUTOXIDE.

Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES

Hazardous Decomposition Products:CARBON MONOXIDE AND CARBON DIOXIDE

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

Waste Disposal Methods:DISPOSE OF IN AN APPROPRIATE DISPOSAL FACILITY  
IN COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. IF SPILL  
IN EXCESS OF EPA REPORTABLE QUANTITY (5000 LBS) IS MADE INTO THE  
ENVIRONMENT,NOTIFY THE NATIONAL RESPONSE CENTER (800-424-8802).

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