

MALLINCKRODT INC. SCIENCE PRODUCTS DIVISION -- METHYL ALCOHOL -- 6810-00-753-4783

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

Product ID:METHYL ALCOHOL

MSDS Date:04/06/1989

FSC:6810

NIIN:00-753-4783

MSDS Number: BFNCQ

=== 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 Ph

one 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

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

Ingred Name:METHYL ALCOHOL (METHANOL) (SARA III)

CAS:67-56-1

RTECS #:PC1400000

Fraction by Wt: >99%

Other REC Limits:NONE

OSHA PEL:S,200PPM/250STEL

ACGIH TLV:S,200PPM/250STEL; 93

EPA Rpt Qty:5000 LBS

DOT

Rpt Qty:5000 LBS

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

LD50 LC50 Mixture:LD50 ORAL RAT=5628MG/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:SIGNS & SYMPTOMS OF  
OVEREXPOSURE. CHRONIC:MARKED IMPAIRMENT OF VISION AND ENLARGEMENT  
OF THE LIVER HAS BEEN REPORTED.REPEATED OR PROLONGED EXPOSURE MAY  
CAUSE SKIN IRRITATION.  
Effects of Overexposure:EYES:IRRI  
TANT,EYE  
LESIONS;SKIN:DEFATTING,DRYNESS,CRACKING;SKIN ABSORPTION:SYMPTOMS  
SIMILAR TO INHALATION;INHALATION:IRRITANT,TOXIC TO NERVOUS SYSTEM &  
OPTIC NERVE,HEADACHE,DROWINESS,NAUSEA,VOMIT,BLURRE D  
VISION,BLINDNESS,COMA,DEATH;INGESTION:SYMPTOMS SIMILAR TO  
INHALATION.CAN CAUSE BLINDNESS.FATAL DOSE=100-125ML  
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN  
DISORDERS OR EYE PROBLEMS OR IMPAIRED LIVER OR KIDNEY FUNCTION.

===== First Aid Measu  
res =====

First Aid:EYES:FLUSH WITH PLENTY OF WATER.SEE DOCTOR  
IMMEDIATELY;SKIN:REMOVE CONTAMINATED CLOTHING.WASH WITH PLENTY SOAP  
& WATER.IF IRRITATION PERSISTS,SEE DOCTOR;INHALATION:REMOVE TO  
FRESH AIR.GIVE CPR/OXYGEN IF NEEDED.SEE DOCTOR;INGESTION:GIVE 2  
GLASSES OF WATER & INDUCE VOMIT IMMEDIATELY.SEE DOCTOR .NOTHING BY  
MOUTH IF UNCONSCIOUS.

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

Flash Point Method:CC  
Flash Point:52.0F,1  
1.1C  
Autoignition Temp:Autoignition Temp Text:725F  
Lower Limits:6.7  
Upper Limits:36  
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:VAPOR HEAVIER THAN AIR.CAN TRAVE ALONG  
GROUND

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

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Spill Release Procedures:REMOVE IGNITIO SOURCES.VENTILATE.WEAR  
RESPIRATORY PROTECTION & PROTECTIVE CLOTHING.ABSORB IN INERT  
MATERIAL AND PLACE IN APPROPRIATE DISPOSAL CONTAINER.

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

Handling and Storage Precautions:PROTECT AGAINST PHYSICAL  
DAMAGE.OUTSIDE OR DETACHED STORAGE PREFERRED.INSIDE STORAGE SHOULD  
BE FOR FLAMMABLE LIQUID.SEPARATE FROM OXIDIZING MATERIALS.

Other Precautions:STORAGE & USE AREAS SHOULD B  
E

NON-SMOKING.SPARKS-PROOF TOOLS & EXPLOSION-PROOF EQUIPMENT SHOULD  
BE USED IN THE STORAGE & HANDLING AREA.

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

Respiratory Protection:NIOSH/MSHA APPROVED RESP DEVICE IN ACCORD WITH  
EXPOSURE OF CONCERN.

Ventilation:LOCAL EXHAUST TO MAINTN BELOW TLV.

Protective Gloves:RUBBER,NEOPRENE.

Eye Protection:GOGLES (DO NOT WEAR CONTACT LENSES)

Other Protective Equipment:RUBBER BOOTS,APRON OR COVERALLS. EYEWASH  
STATION AND SA  
FETY SHOWER.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.REMOVE LAUNDER  
CONTAMINATED CLOTHING.

Supplemental Safety and Health  
NONE

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

HCC:F5

Boiling Pt:=64.4C, 148.F

Melt/Freeze Pt:=-97.8C, -144.F

Vapor Pres:97

Vapor Density:1.1

Spec Gravity:0.8

Evaporation Rate & Reference:5.9 (BUTYL ACETATE=1)

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR, COLORLESS LIQUID, CHAR. ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid: YES

STRONG OXIZING AGENTS. WILL ATTACK SOME FORMS OF  
PLASTICS, RUBBER, COATING. MAY REACT WITH METALLIC AL TO FORM H<sub>2</sub>  
GAS.

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

Hazardous Decomposition Products: CO, CO<sub>2</sub>, FORMALDEHYDE

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

Waste Disposal Methods: DISPOSE AS HAZARDOUS WASTE IN A RCRA APPROVED

FACILITY. DO NOT FLUSH TO SEWER. COMPLY WITH ALL APPLICABLE  
FEDERAL, STATE & LOCAL ENVIRONMENTAL REGULATIONS.

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