

===== 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 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

===== 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

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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:SIGNALS & 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:IRRITANT,EYE
LESIONS;SKIN:DEFATTING,DRYNESS,CRACKING;SKIN ABSORP
TION:SYMPTOMS
SIMILAR TO INHALATION;INHALATION:IRRITANT,TOXIC TO NERVOUS SYSTEM &
OPTIC NERVE,HEADACHE,DROWINESS,NAUSEA,VOMIT,BLURRED
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 Measures =====

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,11.1C
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 TRAVEL ALONG
GROUND

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

Spill Release Procedures:REMOVE IGNITION 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 BE 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 SAFETY 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 =====

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Stability Indicator/Materials to Avoid: YES
STRONG OXIDIZING AGENTS. WILL ATTACK SOME FORMS OF
PLASTICS, RUBBER, COATING. MAY REACT WITH METALLIC AL TO FORM H₂
GAS.
Stability Condition to Avoid: HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES
Hazardous Decomposition Products: CO, CO₂, 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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