

UNION CARBIDE CHEMICALS AND PLASTICS CO INC -- METHYL CARBITOL SOLVENT --  
6850-01-089-5514

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

Product ID:METHYL CARBITOL SOLVENT

MSDS Date:04/18/1997

FSC:6850

NIIN:01-089-5514

MSDS Number: BSCYW

=== Responsible Party ===

Company Name:UNION CARBIDE CHEMICALS AND PLASTICS CO INC

Address:39 OLD RIDGEBURY RD

City:DANBURY

State:CT

ZIP:06817-0001

Country:US

Info Phone Nu

m:203-794-6753

Emergency Phone Num:800-822-4357

CAGE:0TAZ2

=== Contractor Identification ===

Company Name:CHEMICAL SPECIALISTS AND DEVELOPMENT INC

Address:2210 HACKBERRY LN

Box:687

City:CONROE

State:TX

ZIP:77305

Country:US

Phone:409-756-1065

CAGE:4N760

Company Name:UNION CARBIDE CORPORATION

Address:39 OLD RIDGEBURY RD

Box:City:DANBURY

State:CT

ZIP:06817-0001

Country:US

Phone:1-800-568-4000 / 732-563-5522

CAGE:0TAZ2

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

Ingred Nam

e:DIETHYLENE GLYCOL MONOMETHYL ETHER (SYNONYM-METHOXY  
DIGLYCOL; 2-(2-METHOXYETHOXY)ETHANOL)

CAS:111-77-3

RTECS #:KL6125000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

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

Routes of Entry: Inhalation:NO Skin:NO Ingestion:YES

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

Health Hazards Acute and Chronic:ACUTE: INHALATION OF VAPORS ARE NOT  
EXPECTED TO PRODUCE HARMFUL HEALTH EFFECTS AT AMBIENT TEMPERATURES.

EYE CONTACT MAY CAUSE IRRITATION. INGESTION MAY CAUSE CENTRAL  
NERVOUS SYSTEM EFFECTS/INTOXICATION. NO EVIDENCE OF HARMFUL  
EFFECTS FROM SKIN CONTACT OR ABSORPTION. CHRONIC: NONE SPECIFIED BY  
MANUFACTURER.

Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1%  
OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.

Effects of Overexposure:INGESTED: INCOORDINATION, DIZZINESS,  
DROWSINESS, HEADACHE, NAUSEA, MENTAL CONFUSION, SLURRED SPEECH, AND  
STU

POR. EYES: REDNESS, SWELLING, STINGING, DISCOMFORT OR PAIN.

Medical Cond Aggravated by Exposure:A KNOWLEDGE OF THE AVAILABLE  
TOXICOLOGY INFORMATION AND THE PHYSICAL & CHEMICAL PROPERTIES OF  
THE MATERIAL SUGGESTS THAT OVEREXPOSURE IS UNLIKELY TO AGGRAVATE  
EXISTING MEDICAL CONDITIONS.

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

First Aid:INGESTED-IF CONSCIOUS, GIVE TWO (2) GLASSES OF WATER. INDUCE  
VOMITING. GET MEDICAL ATTENTION. EYES-FLUSH WITH LOTS OF W  
ATER FOR

15 MINUTES, HOLD LIDS OPEN. SEE DOCTOR. SKIN-WASH WITH SOAP &  
WATER. INH ALED-NO EMERGENCY CARE ANTICIPATED.

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

Flash Point Method:PMCC

Flash Point:188F,87C

Lower Limits:1.5

Upper Limits:9.5

Extinguishing Media:ALCOHOL-TYPE OR ALL-PURPOSE FOAM, CARBON DIOXIDE,  
OR DRY CHEMICAL.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS WHEN  
FIGHTING FIRES IN ENCLOSED AREAS. DO NOT DIRECT SOLID STREA

M OF

WATER OR FOAM INTO HOT POOLS; MAY CAUSE FROTHING.

Unusual Fire/Explosion Hazard:COMBUSTIBLE.

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

Spill Release Procedures:SMALL SPILLS CAAN BE FLUSHED WITH LARGE AMOUNTS OF WATER; LARGER SPILLS SHOULD BE COLLECTED FOR DISPOSAL.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:KEEP AWAY FROM HEAT AND FLAME. KEEP CONTAINER CLOSED. USE WITH ADEQUATE VENTIALTION. AVOID CONTACT WITH EYES. WASH THOROUGHLY AFTER HANDLING.  
Other Precautions:FOR INDUSTRIAL USE ONLY.

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

Respiratory Protection:NONE NORMALLY REQUIRED.  
Ventilation:GENERAL (MECHANICAL) ROOM VENTILATION IS EXPECTED TO BE SATISFACTORY.  
Protective Gloves:PVC, POLYETHYLENE.  
Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES.  
Other Protective Equipment:EYE WASH STATION & SAFETY SHOWER.  
Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.  
Supplemental Safety and Health  
MSDS SENT WITH CONTRACT (SHIPMENT) SP0450-97-D-4028 BY CAGE 4N760.

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

HCC:V4  
Boiling Pt:B.P. Text:381F,194C  
Melt/Freeze Pt:M.P/F.P Text:-121F,-85C  
Vapor Pres:0.1  
Vapor Density:4.1  
Spec Gravity:1.022  
Evaporation Rate & Reference:0.02 (N-BUTYL ACETATE=1)  
S

solubility in Water:COMPLETE

Appearance and Odor:TRANSPARENT, COLORLESS LIQUID; MILD ODOR.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, ACIDS, STRONG ALKALIS, HIGH TEMPERATURES IN PRESENCE OF STRONG BASES.

Stability Condition to Avoid:DO NOT DISTILL TO DRYNESS. AVOID EXCESSIVE TEMPERATURES OR PROLONGED REFLUX, SUCH AS BATCH DISTILLATIONS.

Hazardous Decomposition Pro

ducts:BURNING CAN PRODUCE: CARBON MONOXIDE OR CARBON DIOXIDE.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:MANUFACTURER SUGGESTS INCINERATE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. AT VERY LOW CONCENTRATIONS IN WATER, THIS PRODUCT IS BIODEGRADABLE IN A BIOLOGICAL WASTEWATER TREATMENT PLANT.

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