

UNION CARBIDE CORP., LINDE DIV. -- SYNASOL SOLVENT,PM-3224,190 PROOF -- 6850-00-188-9875

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

Product ID:SYNASOL SOLVENT,PM-3224,190 PROOF

MSDS Date:06/11/1992

FSC:6850

NIIN:00-188-9875

MSDS Number: BQQDP

=== Responsible Party ===

Company Name:UNION CARBIDE CORP., LINDE DIV.

Address:39 OLD RIDGEBURY RD

City:DANBURY

State:CT

ZIP:06817-0001

Country:US

Info Phone Num:30

4-744-3487

Emergency Phone Num:800-822-4357/304-744-3487

CAGE:36346

=== Contractor Identification ===

Company Name:UNION CARBIDE CORP LINDE DIV

Address:39 OLD RIDGEBURY RD

Box:City:DANBURY

State:CT

ZIP:06817-0001

Country:US

Phone:800-822-4357; 304-744-3487

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

Ingred Name:ETHYL ALCOHOL (ETHANOL)

CAS:64-17-5

RTECS #:KQ6300000

Fraction by Wt: 85.4%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM;

9293

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by Wt: 7.0%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:METHYL ALCOHOL (METHANOL) (SARA III)  
CAS:67-56-1  
RTECS #:PC1400000  
Fraction by Wt: 3.6%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:S,200PPM/250STEL  
ACGIH TLV:S,200PPM/250STEL; 93  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ETHYL ACETATE (SARA III)  
CAS:141-78-6  
RTECS #:AH5425000  
Fraction by Wt: 1.3%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:400 PPM  
ACGIH TLV:4  
00 PPM; 9293  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ALIPHATIC HYDROCARBON  
Fraction by Wt: 0.8%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:METHYL ISOBUTYL KETONE (SARA III)  
CAS:108-10-1  
RTECS #:SA9275000  
Fraction by Wt: 1.9%  
Other REC Limits:NONE RECOMMENDED  
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:TLV FOR ETHYL ALCOHOL IS 1000 PPM.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE-INHALE:EXPOSURE TO OVER 1000 PPM  
MAY CAUSE HEADACHE,DROWSINESS,LASSITUDE,LOSS OF APPETITE,LACK OF  
CONCENTRATION,IRRITATION OF THROAT.ORAL:CAN CAUSE CNS  
DEPRESSION,NAUSEA,VOMITING,DIARRHEA,FETAL ALCOHOL SYNDROME IN  
OFFSPRING.EYES:IRRITATION.SKIN:DEFATTING.CHRONIC-DRYNESS OF  
SKIN,DERMATITIS & ALCOHOLISM.

Effects of Overexposure:E  
XPOSURE TO OVER 1000 PPM MAY CAUSE HEADACHE,  
DROWSINESS, LASSITUDE, LOSS OF APPETITE, LACK OF CONCENTRATION,  
IRRITATION OF THROAT. ORALLY CAN CAUSE CNS DEPRESSION, NAUSEA,  
VOMITING, DIARRHEA. EYE IRRITATION. SKIN DEFATTING. CAN BE  
ABSORBEDTHROUGH DAMAGED SKIN.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN  
DISORDERS OR IMPAIRED LIVER, KIDNEY OR RESPIRATORY FUNCTION MAY BE  
MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

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First Aid Measures =====

First Aid:CALL A DOCTOR IF SYMPTOMS PERSIST. EYE:IMMEDIATELY FLUSH WITH  
WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. SKIN:WASH WITH SOAP &  
WATER. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED.  
ORAL:I F CONSCIOUS, DRINK 2 GLASSES OF WATER &INDUCE VOMITING. CALL  
A PHYSICIAN/POISON CONTROL CENTER IMMEDIATELY.

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Fire Fighting Measures =====

Flash Point Method:TCC  
Flash Point:57.0F,13.9C  
Lower  
Limits:3.3 (ETOH)  
Upper Limits:19 (ETOH)  
Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, ALCOHOL FOAM. WATER  
MAY BE INEFFECTIVE, BUT SHOULD BE USED TO COOL FIRE-EXPOSED  
CONTAINERS  
Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND  
NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL  
FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.  
Unusual Fire/Explosion Hazard:VAPOR IS HEAVIER THAN AIR AND CAN TRAVEL  
CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BA

CK.

CONTAINERS MAY RUPTURE DUE TO VAPOR PRESSURE BUILDUP.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. STOP LEAK IF POSSIBLE. SMALL SPILLS CAN BE FLUSHED WITH LARGE AMOUNT OF WATER. LARGE SPILLS SHOULD BE COLLECTED FOR DISPOSAL.

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

Handling and Storage Precautions:STORE AT AMBIENT TEMPERATURE S, IN WELL

VENTILATED AREA AWAY FROM SOURCES OF IGNITION AND INCOMPATIBLE MATERIALS.

Other Precautions:USE WITH ADEQUATE VENTILATION. AVOID EYE OR SKIN CONTACT. WASH THOROUGHLY BEFORE EATING OR DRINKING. KEEP OUT OF REACH OF CHILDREN. POISON. CONTAINS METHANOL. DO NOT TAKE INTERNALLY. FOR INDUSTRIAL USE ONLY.

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

Respiratory Protection:WEAR NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS IN HIGH VAPOR CONCENTRATIONS.

Ventilation:GENERAL VENTILATION ACCEPTABLE. USE LOCAL EXHAUST (EXPLOSION PROOF) AT POINTS WHERE VAPORS CAN ESCAPE TO WORKPLACE AIR.

Protective Gloves:NEOPRENE

Eye Protection:SAFETY GLASSES OR MONOGOGGLES

Other Protective Equipment:WEAR PROTECTIVE CLOTHING IN CASE OF REPEATED OR PROLONGED CONTACT. PROVIDE EYE WASH & SAFETY SHOWER.

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

Supplemental Safety and Health

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ANGED. FOR PREVIOUS FORMULATION, SEE PNI A UNDER THE SAME

NSN. NOTE TO PHYSICIAN:GASTRIC LAVAGE USING INTUBATION IS

RECOMMENDED. AVOID DEPRESSANT DRUGS OR EXCESSIVE FLUID. NALOXONE

(0.4-1.2 MG IV) MAY AROUSE ETHANOL-INTOXICATED PATIENTS.

HEMODIALYSIS IS INDICATED IF BLOOD ETHANOL LEVEL IS ABOVE 5 MG/ML.

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

HCC:F2

Boiling Pt:B.P. Text:171F,77C

Melt/Freeze Pt:M.P/F.P Text: