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UNION CARBIDE CORP., INDUSTRIAL CHEMICALS DIVISION -- BUTYL CARBITOL SOLVENT -- 6810-00-351-8185

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

Product ID:BUTYL CARBITOL SOLVENT
MSDS Date:08/21/1997
FSC:6810
NIIN:00-351-8185
Status Code:A
MSDS Number: CLCJJ
=== Responsible Party ===
Company Name:UNION CARBIDE CORP., INDUSTRIAL CHEMICALS DIVISION
Address:39 OLD RIDGEBURY ROAD
City:DANBURY
State:CT
ZIP:06817-0
001
Country:US
Info Phone Num:800-822-4357/304-744-3487
Emergency Phone Num:800-822-4357
Preparer's Name:NOT PROVIDED
CAGE:61637
=== Contractor Identification ===
Company Name:SDB CONSULTANTS LTD
Address:401 WHITNEY AVE SUITE 120
Box:City:GRETNA
State:LA
ZIP:70056
Country:US
Phone:504-366-9105
Contract Num:SP0450-01-M-ZA90
CAGE:0PGK2
Company Name:UNION CARBIDE CORP
Address:39 OLD RIDGEBURY ROAD
Box:City:DANBURY
State:CT
ZIP:06817-0001
Country:US
Phone:800-822-4357/732-563-5522 (MSDS)
CAGE:61637

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

Ingred Name:DIETHYLENE GLYCOL MONOBUTYL ETHER
CAS:112-34-5
RTECS #:KJ9100000
Minumum % Wt:99.
Maxumum % Wt:100.
Other REC Limits:NONE ESTABLISHED
OSHA PEL:NONE ESTABLISHED
ACGIH TLV:NONE ESTABLISHED

Ingred Name:ETHYLENE GLYCOL MONOBUTYL ETHER
CAS:111-76-2
RTECS #:KJ8575000
Minumum % Wt:0.
Maxumum % Wt:.3
Other REC Limits:NOT PROVIDED
OSHA PEL:240 MG/M3;50 PPM
ACGIH TLV:121 MG/M3;25 PPM

========== Hazards Identif
ication ==========

LD50 LC50 Mixture:NOT PROVIDED
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: SWALLOWING: MAY CAUSE
INCOORDINATION, DIZZINESS, DROWSINESS, HEADACHE, NAUSEA, MENTAL
CONFUSION, POSSIBLY SLURRED SPEECH. SKIN ABSORPTION: PROLONGED OR
WIDESPREAD CONTACT MAY RESULT IN THE ABSO RPTION OF POTENTIALLY
HARMFUL AMOUNTS OF MATERIAL. INHALATION: VAPOR FROM HEATED MATERIAL
MAY CAUSE HEADACHE, NAUSEA, AND DIZZINES
S. SKIN CONTACT: BRIEF
CONTACT IS NOT IRRITATING. PROLONGED CONTACT CA USES MILD TO
MODERATE LOCAL REDNESS AND SWELLING. EYE CONTACT: CAUSES SEVERE
IRRITATION, EXPERIENCED AS DISCOMFORT OR PAIN, EXCESS BLINKING,
REDNESS, SWELLING AND CHEMICAL BURNS. CHRONIC: INHALATION O F MIST
IS HARMFUL.
Explanation of Carcinogenicity:NONE
Effects of Overexposure:NOT PROVIDED
Medical Cond Aggravated by Exposure:A KNOWLEDGE OF THE AVAILABLE
TOXICOLOGY INFORMATION ANS OF THE PHYSICAL AND

CHEMICAL PROPERTIES
OF THE MATERIAL SUGGESTS THAT OVEREXPOSURE IS UNLIKELY TO AGGRAVATE EXISTING MEDICAL CONDITION.

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

First Aid:SWALLOWING: IF PATIENT IS FULLY CONSCIOUS, GIVE TWO GLASSES OF WATER. INDUCE VOMITING. THIS SHOULD BE DONE ONLY BY MEDICAL OR EXPERIENCE FIRST-AID PERSONNEL. OBTAIN MEDICAL ATTENTION. SKIN: REMOVE CON TAMINATED CLOTHING. WASH SKIN WITH SOAP AND WATER. OBTAIN MEDICAL ATTENTION IF
IRRITATION PERSISTS. WASH CLOTHING
BEFORE REUSE. INHALATION: REMOVE TO FRESH AIR. OBTAIN MEDICAL ATTENTION IF SYMPTONS PE RSIST. EYES: IMMEDIATELY FLUSH EYES WITH WATER AND CONTINUE WASHING FOR AT LEAST 15 MINUTES. DO NOT REMOVE CONTACT LENSES, IF WORN. OBTAIN MEDICAL ATTENTION WITHOUT DELAY, PREFERABLY FROM AN OPHTALMOL OGIST.

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

Flash Point Method:TCC
Flash Point:=101.1C, 214.F
Autoignition Temp:=228.C, 44
2.4F
Lower Limits:N/D
Upper Limits:N/D
Extinguishing Media:APPLY ALCOHOL-TYPE OR ALL PURPOSE TYPE FOAM FOR LARGE FIRES. USE CARBON DIOXIDE OR DRY CHEMICAL FOR SMALL FIRES.
Fire Fighting Procedures:USE SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. DO NOT DIRECT A SOLID STREAM OF WATER OR FOAM INTO HOT, BURNING POOLS; THIS MAY CAUSE FROTHING AND INCREASE FIRE INTENSITY.
Unusual Fire/Explosion Hazard:THIS MATERIAL HAS A RELATIVELY LOW AUTOIGNITION TEMPERATURE: 228
DEGRES C. THIS MATERIAL MAY PRODUCE A
FLOATING FIRE HAZARD IN EXTREME FIRE CONDITIONS.

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

Spill Release Procedures:SMALL SPILLS CAN BE FLUSHED WITH LARGE AMOUNT OF WATER; LARGER SPILLS SHOULD BE COLLECTED FOR DISPOSAL. WEAR SUITABLE PROTECTIVE EQUIPMENT.

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

Handling and Storage Precautions:DANGER! CAUSES EYE BURNS. DO NOT GET IN EYES. KEEP CONTAINE

RS CLOSED. USE WITH ADEQUATE VENTILATION.
Other Precautions:WASH THROUGHLY AFTER HANDLING. FOR INDUSTRIAL USE ONLY.

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

Respiratory Protection:NONE EXPECTED TO BE NEEDED.
Ventilation:GENERAL (MECHANICAL) ROOM VENTILATION IS EXPECTED TO BE SATISFACTORY.
Protective Gloves:PVC-COATED.
Eye Protection:MONOGOGGLES.
Other Protective Equipment:EYE BATH, SAFETY SHOWER.
Work Hygienic Practices:NOT PROVIDED
Supplemental Safety and H
ealth
ABBREVIATION: N/A = NOT APPLICABLE. N/AV = NOT AVAILABLE. N/K = UNKNOWN. N/P = NOT PROVIDED. N/R = NOT RELEVANT. N/D = NOT DETERMINED. N/E = NOT ESTABLISHED.

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

HCC:V5
NRC/State Lic Num:NOT RELEVANT
Boiling Pt:=230.6C, 447.1F
Melt/Freeze Pt:=-68.C, -90.4F
Decomp Temp:Decomp Text:NOT PROVIDED
Vapor Pres:0.01 @ 20C/68F
Vapor Density:6
Spec Gravity:0.953
VOC Pounds/Gallon:951
pH:NOT PROVIDED
Viscosity:NOT PROVIDED
Eva
poration Rate & Reference: