

UNION CARBIDE CORP INDUSTRIAL CHEMICALS DIV -- BUTYL CELLOSOLVE SOLVENT --  
6810-00-281-2001

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

Product ID: BUTYL CELLOSOLVE SOLVENT

MSDS Date: 12/17/1996

FSC: 6810

NIIN: 00-281-2001

MSDS Number: BDSPV

=== Responsible Party ===

Company Name: UNION CARBIDE CORP INDUSTRIAL CHEMICALS DIV

Address: 39 OLD RIDGEBURY ROAD

City: DANBURY

State: CT

ZIP: 06817-0001

Country: US

Info Phon

e Num: 800-822-4357

Emergency Phone Num: 800-822-4357

CAGE: 61637

=== Contractor Identification ===

Company Name: UNI-KEM INTERNATIONAL

Address: 1001 HARIMAW COURT EAST

Box: City: METAIRIE

State: LA

ZIP: 70001

Country: US

Phone: 504-835-7600/FAX: 504-835-7608

CAGE: 4S446

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:2-BUTOXYETHANOL OR ETHYLENE GLYCOL MONOBUTYL ETHER  
CAS:111-76-2  
RTECS #:KJ8575000  
Fraction by Wt: 99-100%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:S, 50 PPM  
ACGIH TLV:S, 25 PPM; 9596

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===== Hazards Identification =====  
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LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: INGESTION MAY CAUSE CNS EFFECTS  
&  
GI TRACT IRRITATION, RED BLOOD CELL HEMOLYSIS. SKIN ABSORPTION  
MAY CAUSE SYMPTOMS SIMILAR TO INGESTION. SKIN & EYE CONTACT MAY  
CAUSE IRRITATION. INHALATION OF HIGH CONCENTRATIONS OF VAPOR/MIST  
MAY CAUSE IRRITATION OF RESPIRATORY TRACT, CNS EFFECTS. CHRONIC:  
NONE NOTED.  
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/SKIN ABSORPTION-HEADACHE, DIZZINESS,  
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NCOORDINATION, NAUSEA, VOMITING, DIARRHEA, GENERAL WEAKNESS. SKIN  
CONTACT-IRRITATION, ITCHING, LOCAL REDNESS. EYE CONTACT-DISCOMFORT,  
PAIN, EXCESS BLINKI NG, TEARING, REDNESS, SWELLING. INHALED-NASAL  
DISCOMFORT, CHEST PAIN, COUGHING, HEADACHE, NAUSEA, VOMITING,  
DIZZINESS...  
Medical Cond Aggravated by Exposure:SKIN CONTACT MAY AGGRAVATE AN  
EXISTING DERMATITIS.

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===== First Aid Measures =====  
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First Aid:IN ALL CASES GET MEDICAL ATTENTION. E  
YES-FLUSH WITH WATER FOR  
15 MINUTES. SKIN-REMOVE CONTAMINATED CLOTHES. WASH WITH MILD SOAP &  
WATER. INHALED-REMOVE TO FRESH AIR. INGESTED-IF CONSCIOUS, GIVE 2  
GLAS SES WATER, INDUCE VOMITING. NOTE TO PHYSICIAN: NO SPECIFIC  
ANTIDOTE. TREATMENT SHOULD BE DIRECTED TO CONTROL OF SYMPTOMS &  
CLINICAL CONDITION OF PATIENT.

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===== Fire Fighting Measures =====  
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Flash Point Method:TCC  
Flash Point:154F,68C  
Lower Limits:1.1  
Upper Limits:10.6  
Extinguishin

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

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS & FULL FIRE FIGHTER'S PROTECTIVE GEAR. DO NOT DIRECT A SOLID STREAM OF WATER OR FOAM INTO HOT POOLS; MAY CAUSE FROTHING.

Unusual Fire/Explosion Hazard: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 AMOUNTS OF WATER. LARGER SPILLS SHOULD BE COLLECTED FOR DISPOSAL. WEAR SUITABLE PROTECTIVE CLOTHING.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:USE WITH ADEQUATE VENTILATION. KEEP AWAY FROM HEAT & FLAME. KEEP CONTAINER CLOSED. DO NOT GET IN EYES, ON SKIN OR CLOTHES. DO NOT SWALLOW.

Other Precautions:SWALLOWING LARGE QUANTITIES MAY CAUSE RED BLOOD CELL DAMAGE. WASH THOROUGHLY AFTER HANDLING.

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

Respiratory Protection:IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 CFR 1910.134.

Ventilation:USE ADEQUATE GENERAL (MECHANICAL) VENTILATION OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:BUTYL.

Eye Protection:MONOGOGGLES.

Other Protective

Equipment:CHEMICAL APRON, EYE WASH STATION & SAFETY SHOWER.

Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDRY CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

HCC CHANGED FROM T4 TO T6 DUE TO CHANGE IN REGULATORY STATUS OF ETHYLENE GLYCOL MONOBUTYL ETHER (DROP OF UN ID NUMBER UN2369) FROM THE TRANSPORTATION REGULATORY AGENCIES. DLA-HMIS STAFF CONSIDER THIS COMPONENT SUFFICIENTLY TOXIC TO WARRANT A T6 HCC.

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

HCC:T4

Boiling Pt:=171.1C, 340.F

Melt/Freeze Pt:=-70.C, -94.F

Vapor Pres:0.6

Vapor Density:4.1

Spec Gravity:0.901

Evaporation Rate & Reference:0.08 (N-BUTYL ACETATE=1)

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 ALKALIS, ACIDS, S

TRONG OXIDIZING AGENTS, HIGH TEMPERATURES IN  
THE PRESENCE OF STRONG BASES.

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

Hazardous Decomposition Products:BURNING CAN PRODUCE THE FOLLOWING:  
CARBON MONOXIDE AND/OR CARBON DIOXIDE.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:INCINERATE IN A FURNACE WHERE PERMITTED UNDER

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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