

SHELL OIL COMPANY -- BUTYL DIOXITOL (R) -- 6810-00-351-8185

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

Product ID:BUTYL DIOXITOL (R)

MSDS Date:06/06/1989

FSC:6810

NIIN:00-351-8185

MSDS Number: BLFFL

=== Responsible Party ===

Company Name:SHELL OIL COMPANY

Address:1 SHELL PLAZA

Box:2463

City:HOUSTON

State:TX

ZIP:77001

Country:US

Info Phone Num:713-241-4819

Emergency Phone Num:713-473-9461 (24 HOUR EMERGENCY)

Preparer's Name:J.C.WILLETT

CAGE:54527

=== Contractor Identification ===

Company Name:SDB CONSULTANTS LTD

Address:401 WHITNEY AVE SUITE 120

Box:City:GRETN

State:LA

ZIP:70056

Country:US

Phone:504-366-9105

CAGE:0PGK2

Company Name:SHELL CHEMICAL COMPANY A DIV. OF SHELL OIL CO.

Address:1 SHELL PLAZA

Box:2463

City:HOUSTON

State:TX

ZIP:77001

Country:US

Phone:713-473-9461

CAGE:86961

Company Name:SHELL OIL COMPANY

Address:Box:2463

City:HOUSTON

State:TX

ZIP:77210

Country:US

Phone:800-231-6950

CAGE:54

527

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

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

Ingred Name:DIETHYLENE GLYCOL MONOBUTYL ETHER

CAS:112-34-5

RTECS #:KJ9100000

Fraction by Wt: 100%

Other REC Limits:NONE SPECIFIED

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

LD50 LC50 Mixture:ORAL RAT LD50: 5.7-8.6 G/KG

Routes of Entry:

Inhalation:NO Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:LIQUID IS MODERATELY IRRITATING TO THE EYES. LIQUID IS SLIGHTLY IRRITATING TO THE SKIN AND SLIGHTLY TOXIC IF ABSORBED THROUGH THE SKIN. INHALATION IS NOT EXPECTED TO BE A HAZARD. LIQUID IS MODERATELY TOXIC AND MAY BE HARMFUL IF SWALLOWED.

Explanation of Carcinogenicity:THIS PRODUCT IS NOT LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN, MUTAGEN, TERATOGEN OR NEUROTOXIN.

Effects of Overexposure:LIQUID IS MODERATELY IRRITATING TO THE EYES. LIQUID IS SLIGHTLY IRRITATING TO THE SKIN AND SLIGHTLY TOXIC IF ABSORBED THROUGH THE SKIN. INHALATION IS NOT EXPECTED TO BE A HAZARD. LIQUID IS MODERATELY TOXIC AND MAY BE HARMFUL IF SWALLOWED.

Medical Cond Aggravated by Exposure:NONE KNOWN

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

First Aid:EYES: FLUSH WITH RUNNING WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN.

GET MEDICAL ATTENTION. SKIN: FLUSH WITH WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. INHALATION: REMOVE VICTIM TO FRESH AIR & PROVIDE O2 OR ARTIFICIAL RESPIRATION AS REQUIRED. GET MEDICAL ATTENTION. INGESTION: IF CONSCIOUS, GIVE WATER TO DRINK & INDUCE VOMITING, KEEPING VICTIM'S HEAD BELOW HIPS. GET MEDICAL ATTENTION.

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

Flash Point Method:TCC
Flash Point:220F,104C
Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.
Unusual Fire/Explosion Hazard:NATERIAL WILL NOT BURN UNLESS PREHEATED.

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

Spill Release Procedures:LARGE SPILL: WEAR RESPIRATOR & PROTECTIVE CLOTHING AS APPROPRIATE. SHUT OFF SOURCE OF LEAK IF SAFE TO DO SO. D
IKE & CONTAIN. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESID UE WITH INERT ABSORBENT & FLUSH AREA WITH WATER.
Neutralizing Agent:NONE

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

Handling and Storage Precautions:STORE IN A COOL, DRY PLACE. KEEP CONTAINERS CLOSED WHEN MATERIAL IS NOT IN USE. KEEP AWAY FROM IGNITION SOURCES. AVOID PROLONGED OR REPEATED CONTACT.
Other Precautions:NONE

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

Respiratory Protection:WEAR A NIOSH/MSHA APPROVED RESPIRATOR AS REQUIRED TO PREVENT OVEREXPOSURE. IN ACCORDANCE WITH 29CFR1910.134, USE EITHER A FULL-FACE, ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS.
Ventilation:LOCAL AND MECHANICAL(GENERAL) VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS.
Protective Gloves:WEAR CHEMICAL RESISTANT GLOVES.
Eye Protection:WEAR CHEMICAL GOGGLES
Other Protective Equipment:WEAR

OTHER CLOTHING AS REQUIRED TO MINIMIZE
CONTACT.

Work Hygienic Practices:WASH WITH SOAP AND WATER BEFORE EATING,
DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDER CONTAMINATED
CLOTHING.

Supplemental Safety and Health

AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO
NOT BREATHE VAPORS OR MIST. DO NOT INGEST. READ PRECAUTIONS ON
LABEL BEFORE USE.

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

HCC:N1

Boiling Pt:B.P. Text:446F,230

C

Melt/Freeze Pt:M.P/F.P Text:-105F,-76C

Vapor Pres:0.02

Vapor Density:0.023

Spec Gravity:0.95

Viscosity:242CPS@25C

Evaporation Rate & Reference: