

SHELL OIL CO -- 32351 BUTYL OXITOL (R) -- 6810-00-281-2001

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

Product ID:32351 BUTYL OXITOL (R)

MSDS Date:07/01/1996

FSC:6810

NIIN:00-281-2001

MSDS Number: CBSZF

=== Responsible Party ===

Company Name:SHELL OIL CO

Address:1 SHELL PLAZA

Box:2463

City:HOUSTON

State:TX

ZIP:77001

Country:US

Info Phone Num:713-241-2252/4201

Emergency Phone Num:713-473-9461/800-424-9300(
CHEMTREC)

Preparer's Name:JOHN P. SEPESI

CAGE:93508

=== Contractor Identification ===

Company Name:OCCIDENTAL CHEMICAL CO DIV OCCIDENTAL PETROLEUM

Address:CUSTOMER SERVICE, OCCIDENTAL TOWER

Box:809050

City:DALLAS

State:TX

ZIP:75380

Country:US

Phone:716-278-7021

CAGE:4R332

Company Name:SHELL OIL CO

Address:1 SHELL PLAZA

Box:2463

City:HOUSTON

State:TX

ZIP:77001

Country:US

Phone:713-473-9461/800-424-9300(CHEMTREC)

CAGE:93508

Company Name:SHELL OIL COMPANY

Address:Box:2463

City:HOUSTON

State:TX

ZIP:

77210
Country:US
Phone:800-231-6950
CAGE:54527
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

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Composition/Information on Ingredients
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Ingred Name:2-BUTOXYETHANOL
CAS:111-76-2
RTECS #:KJ8575000
Fraction by Wt: 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:BASED ON PRODUCT TESTING:SEVERELY
IRRIT EYE;MILDLY IRRIT SKIN,TOXIC IF ABSORBED THRU SKIN;IRRIT
NOSE/THROAT/RESP TRACT & ACUTE TOXIC IF INHALED;MODERATELY TOXIC IF
INGESTED.
Effects of Overexposure:IRRITATING AS NOTED ABOVE (HEALTH HAZARDS).
Medical Cond Aggravated by Exposure:PRE0EXI
STING SKIN, EYE , & LUNG
DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO 2-BUTOXYETHANOL.

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First Aid Measures
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First Aid:EYE:IMMED FLUSH W/PLENTY OF WATER FOR @LEAST 15MINS WHILE
HOLDING EYELIDS OPEN.GET MED ATTN. SKIN:FLUSH W/WATER.IRRIT OCCURS
GET MED ATTN. INHAL:REMOVE TO FRESH AIR.BREATH DIFFIC PROVIDE
OXY;NOT BREAT H GIVE ART RESP.GET MED ATTN. INGEST:DONOT GIVE LIQ
IF UNCONSC/VERY DROWSY.OTHERWISE GIVE NO MORE THAN 2 GLASSES

OF

WATER,INDUCE VOMIT BY GIVING 30CC(2TABLESPOON)SYRUP OF IPECAC OR 2 GLASSES(SUPPLE)

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

Flash Point Method:TCC

Flash Point:138F,59C

Autoignition Temp:Autoignition Temp Text:NP

Lower Limits:N/AVAI

Upper Limits:N/AVAI

Extinguishing Media:USE WATER FOG, "ALCOHOL" FOAM, DRY CHEMICAL, CO2.

Fire Fighting Procedures:CAUTION,FLAMM.DO NTO ENTER CONFIN FRIE SPACE W/O FULL BUNKER GEAR(HELMET,FCSHIELD,COAT,GLOVE,BOOTS)+PRESSURE

NIOSH APPROVED SCBA.COOL FIRE CNTNR W/WATER.

Unusual Fire/Explosion Hazard:CNTNR EXPO TO INTENSE FIRE HEAT.COOL W/H2O TO PREVENT VAP PRESS BUILDUP RESULTING IN RUPTURE.COOL W/LOTS OF H2O CNTNR AREA EXPO TO DIR FLAME-PREVENT WEAK STRUCT

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

Spill Release Procedures:CAUTION-COMBUSTIBLE.LG:ELIMINATE POT IGN SOURCES.WEAR APPROPRIATE RESP/PROT CLOTH.SHUT OFF SOURCE W/O RISK.DIKE/CONTAIN.REMOVE W/VAC TRUCKS/PUMP TO STORAGE/SALVAGE

VESS.SOAK UP RESIDUE W/ABSORBENT(CLA Y,SAND,SUITABLE MATL)PLACE IN CNTNR/SEAL(OTH PREC)

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:KEEP LIQ/VAP AWAY FROM HEAT/SPARK/FLAME.SURFACE SUFFI HOT MAY IGN LIQ.EXT PILOT LIGHT,ETC PRIOR TO USE/TIL VAP GONE.VAP ACCUM,TRAVEL DISTANCE FLASHBAC

Other Precautions:KEEP CNTNR CLS WHEN NOT IN USE.EPLO VAP.DON'T CUT/WEL

D/ETC ON/NEAR CNTNR.STATIC ELECTRI HAZ.BOND/GROUND EQPMT.BE SAFET-READ PROD SAF INFO & PASS IT ON. SPILL:FLUSH AREA W/H2O-REMOVES TRACE RESIDUE.SM: TAKE UP W/ABSORBENT MATL,PLACE IN CNTNR.

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

Respiratory Protection:AVOID BREATH VAP.EXPO MAY/DOES EXCEED OCCUP EXPO LIMITS USE NIOSH-APPROVED RESP TO PREVENT OVEREXPO.IAW 29CFR1910.134 USE EITHER FULLFACE,ATM-SUPPLIED RESP OR AIR-PURIYING RESP OR ORG VAPOR.

Ven

tilation:USE VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATION.
Protective Gloves:CHEM-RESIST GLOVES (NEOPRENE).
Eye Protection:CHEM GOGGLES.
Other Protective Equipment:WEAR OTHER CLOTHING(NEOPRENE)AS REQUIRED TO
MIN CONTACT.EYE WASH FOUNTAINS & SAFETY SHOWERS FOR EMERG USE.
Work Hygienic Practices:AVOID BREATH VAPOR/CONTACT W/EYES.WASH
W/SOAP/WATER BEF EAT/DRINK/SMOKE/USE TOILET FACI.LAUNDRY CONTAMIN
CLOTH BEF REUSE
Supplemental Safety and Health
1ST AID:GLASSES OF WATER & INDUCE
VOMIT BY TOUCH FINGER TO BACK OF
THROAT.KEEP HEAD BEL HIPS WHILE VOMIT.GET MED ATTN.DR:IF VICTIM
CHILD GIVE NO MORE THAN 1 GLASS OF WATER & 15CC(1TABLEPSOON)SYRUP
OF I PEACAC.SYMPTOMS(LOSS OF GAS REFLEX,CONVULS,UNCONSC)OCCUR BEF
EMESIS CONSIDERE GASTRIC LAVAGE FOLLOW INTUBA W/CUF ENDOTRAC

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

HCC:F4
Boiling Pt:B.P. Text:340F,171C
Melt/Freeze Pt:M.P/F.P Text:N/AVAI
Decomp Temp:Decomp Text:NP
Vapor Pres:0.6
Vapor Den
sity:4.1
Spec Gravity:0.90
pH:NP
Viscosity:NP
Solubility in Water:COMPLETE
Appearance and Odor:CLEAR, COLORLESS LIQUID, MILD ODOR.
Percent Volatiles by Volume:NP
Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES
AVOID CONTACT W/AL SURFACES IF SURFACE ALUMINUM OXIDE ILM IS REMOVED,
RELEASE HYDROGEN GAS CAN RESULT;STRONG OXIDIZERS.
Stability Condition to Avoid:AVOID HEAT, FLAME & CONTACT W/STRONG
OXODING AGENT

S.

Hazardous Decomposition Products: CARBON MONOXIDE, UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

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

Waste Disposal Methods: UNDER EPA RCRA PROD BECOMES WASTE WOULD BE D001. EER TO LATEST EPA/STATE REGS REGARDING PROPER DISPO. UNDER EPA CERCLA RELEASES TO AIR/LAND/WATER MAY BE REPORTABLE TO NAT RESP CNTNR 800-424-8802 (CERCLUM SURROUND RELEASE/CLEANUP DETERMINE REPORTABILITY)

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