

SHELL OIL COMPANY -- SHELLZONE ANTIFREEZE -- 6850-00-135-2878

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

Product ID:SHELLZONE ANTIFREEZE

MSDS Date:11/13/1985

FSC:6850

NIIN:00-135-2878

MSDS Number: BLJRQ

=== 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:JOHN P. SEPESI

CAGE:54527

=== Contractor

Identification ===

Company Name:SHELL OIL COMPANY

Box:2463

City:HOUSTON

State:TX

ZIP:77210

Country:US

Phone:800-231-6950

CAGE:54527

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

Ingred Name:ETHYLENE GLYCOL (SARA III)

CAS:107-21-1

RTECS #:KW2975000

Fraction by Wt: 84-94%

Other REC Limits:NONE SPECIFIED

OSHA PEL:C 50 PPM

ACGIH TLV:C 50 PPM,VAPOR; 9192

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:DIETHYLENE GLYCOL

CAS:111-46-6

RTECS #:ID5950000

Fraction by Wt: 0-10%

Othe

r REC Limits:NONE SPECIFIED

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Fraction by Wt: 2-4%

Other REC Limits:NONE SPECIFIED

Ingred Name:SALTS (INORGANIC AND ORGANIC)

Fraction by Wt: 2-4%

Other REC Limits:NONE SPECIFIED

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:EYES: MODERATELY TO SEVERELY

IRRITATION. SKIN: MILDLY

IRRITATING AND SLIGHTLY TOXIC ON

PROLONGED OR REPEATED CONTACT. INHALATION: VAPORS ARE MILDLY TO

MARKEDLY IRRITATING TO THE LUNGS. INGESTION: M AY BE HARMFUL OR

FATAL. MAY PRODUCE CNSDEPRESSION AND KIDNEY DAMAGE. POSSIBLE LIVER

DAMAGE ALSO.

Effects of Overexposure:EARLY TO MODERATE CNS DEPRESSION MAY BE

EIDENCED BY GIDDINESS, HEADACHE, DIZZINESS AND NAUSEA. IN EXTREME

CASES, UNCONSCIOUSNESS AND DEATH. KIDNEY DAMAGE MAY BE EVIDENCED BY

CHANGES IN URINE OUTPUT, U RIN

E APPEARANCE OR EDEMA. LIVER DAMAGE

MAY BE EVIDENCED BY LOSS OF APPETITE. FAUNDICE AND SOMETIMES PAIN

IN UPPER ABDOM.

Medical Cond Aggravated by Exposure:SKIN, EYE AND RESPIRATORY

DISORDERS. ALSO KIDNEY AND LIVER FUNCTIONS.

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

First Aid:EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15

MIN. WHILE HOLDING EYELIDS OPEN. SKIN: FLUSH WITH WATER.

INHALATION: REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYG

EN IF

BREATHING IS DIFFIC ULT. GET MEDICAL ATTENTION. INGESTION:DO NOT

GIVE LIQUIDS IF VICTIM IS UNCONSCIOUS. OTHERWISE, GIVE NO MORE THAN

2 GLASSES OF WATER AND INDUCE VOMITING BY GIVING 30CC SYRUP OF

IPECAC.

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

Flash Point Method:SCC

Flash Point:246F,119C

Extinguishing Media:USE WATER FOG, ALCOHOL FOAM, DRY CHEMICAL OR CARBON  
DIOXIDE.

Fire Fighting Procedures:MATERIAL WILL NOT VURN UNLESS PREHEATED. DO

NOT ENTER CONFINED FIRE SPACE WITH OUT FULL BUNKER GEAR, INCLUDING  
A POSITIVE PRESSURE BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:COOL FIRE EXPOSED CONTAINERS WITH WATER.

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

Spill Release Procedures:WEAR RESPIRATOR AND PROTECTIVE CLOTHING. SHUT  
OFF SOURCE OF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN. REMOVE WITH  
VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE  
WITH AB ABSORBENT SUC H AS CLA

Y, SAND OR OTHER SUITABLE MATERIAL.

Neutralizing Agent:NONE

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

Handling and Storage Precautions:STORE IN A COOL, DRY PLACE WITH  
ADEQUATE VENTILATION. KEEP AWAY FROM FLAMES AND HIGH TEMPERATURES.

Other Precautions:NONE

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

Respiratory Protection:USE A NIOSH-APPROVED RESPIRATOR TO PREVENT  
OVEREXPOSURE.

Ventilation:USE LOCAL MECHANICAL VENTILATION.

Protective

Gloves:NOT NORMALLY NECESSARY.

Eye Protection:NOT NORMALLY NECESSARY.

Other Protective Equipment:EYEWASH FOUNTAINS AND SAFETY SHOWER.

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

Supplemental Safety and Health

NONE

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

HCC:N1

Boiling Pt:B.P. Text:330F,166C

Vapor Density:>1

Spec Gravity:1.1373

Evaporation Rate & Reference: