

SHELL CHEMICAL COMPANY A DIV. OF SHELL OIL CO. -- TOLU-SOL W HT NAPHTHA SHELL CODE
83996 -- 6810-00-238-8117

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

Product ID:TOLU-SOL W HT NAPHTHA SHELL CODE 83996

MSDS Date:03/17/1992

FSC:6810

NIIN:00-238-8117

MSDS Number: BRDHZ

=== Responsible Party ===

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

Info Phone Num:713-241-4819

Emergency Phone Num:713-473-9461

Preparer's Name:G.A. VAN GELDER

CAGE:86961

=== Contractor Identification ===

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:SOLVENTS AND CHEMICALS, INC.

Address:4704 SHANK ROAD

Box:City:PEARLAND

State:TX

ZIP:77588-0490

Country:US

Phone:281-485-5377

CAGE:4W432

===== Composition/

Information on Ingredients =====

Ingred Name:NAPHTHA, LIGHT ALIPHATIC
CAS:64742-89-8
Fraction by Wt: 100%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:400 PPM
ACGIH TLV:400 PPM

Ingred Name:N-HEPTANE (CONTAINED IN NAPHTHA)
CAS:142-82-5
RTECS #:MI7700000
Fraction by Wt: 18%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:500 PPM/500 STEL
ACGIH TLV:400 PPM/500STEL;9293

Ingred Name:TOLUENE (SARA III) (CONTAINED IN NAPHTHA)

CAS:108-88-3

RTECS #:XS5250000

Fraction by Wt: 25 ML/KG

Routes of Entr

y: Inhalation:YES Skin:YES Ingestion:NO

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

Health Hazards Acute and Chronic:ACUTE: SLIGHTLY IRRITATING TO EYES AND SKIN. VAPORS MAY BE IRRITATING TO RESPIRATORY SYSTEM. HIGH VAPOR CONCENTRATION MAY PRODUCE CENTRAL NEVOUS SYSTEM DEPRESSION. ASPIRATION AFTER INGESTION MAY CAUSE CHEMICAL PNEUMONITIS. CHRONIC: DEFATTING AND DRYING OF SKIN, AND DERMATITIS.

Explanation of Carcinogenicity:NONE OF THE INGREDIENTS IN THIS PRODUCT IS

LISTED BY NTP, IARC OR OSHA AS A CARCINOGEN.

Effects of Overexposure:EYES/SKIN: IRRITATION. INHALATION: NOSE AND THROAT IRRITATION, GIDDINESS, HEADACHE, DIZZINESS, NAUSEA. IN EXTREME CASES, UNCONSCIOUSNESS AND DEATH. ASPIRATION PNEUMONITIS MAY BE EVIDENCED BY COUGHING, LABORED BREATHING AND CYANOSIS. IN SEVERE CASES, DEATH MAY OCCUR.

Medical Cond Aggravated by Exposure:PREEXISTING EYE, SKIN AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

=====

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

First Aid: EYES: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. SEE DOCTOR. SKIN: REMOVE CONTAMINATED CLOTHING AND SHOES. WASH WITH WATER, FOLLOWED WITH SOAP AND WATER, SEE DOCTOR. INHALATION: REMOVE VICTIM TO FRESH AIR. GIVE OXYGEN/CPR IF NEEDED. SEE DOCTOR. INGESTION: DO NOT INDUCE VOMITING. KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION. SEE DOCTOR.

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

Flash Point Method: SCC

Flash Point: -6.7C, 20.F

Lower Limits: 1

Upper Limits: 8

Extinguishing Media: USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL. DO NOT USE DIRECT WATER STREAM. PRODUCT WILL FLOAT AND REIGNITE.

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: COMBUSTION OR HEAT OF FIRE MAY PRODUCE

HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS. CONTAINERS MAY RUPTURE WITH HEAT OF FIRE.

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

Spill Release Procedures: REMOVE PERSONNEL. ELIMINATE IGNITION SOURCES. VENTILATE AREA. WEAR PROTECTIVE CLOTHING AND EQUIPMENT. HANDLING EQUIPMENT SHOULD BE GROUNDED TO PREVENT SPARKING. ABSORB IN INERT MATERIAL AND PLACE IN A PROPER DISPOSAL CONTAINER AND COVER.

Neutralizing Agent: NOT APPLICABLE.

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

Handling and Storage Precautions: STORE IN COOL, DRY, WELL VENTILATED AREA. PROTECT FROM PHYSICAL DAMAGE, HEAT, IGNITION SOURCES AND INCOMPATIBLE MATERIALS. KEEP CONTAINERS CLOSED.

Other Precautions: SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE LIQUID IN THE ABSENCE OF SPARKS OR FLAMES. VAPORS HEAVIER THAN AIR, MAY ACCUMULATE IN LOW AREAS, OR TRAVEL TO IGNITION SOURCES AND FLASHBACK.

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

I Protection =====

Respiratory Protection:NONE NORMALLY REQUIRED. NIOSH/MSHA-APPROVED RESPIRATOR OR SCBA AS APPROPRIATE FOR EXPOSURE OF CONCERN.

Ventilation:MECHANICAL (GENERAL) VENTILATION OR LOCAL EXHAUST VENTILATION. USE EXPLOSION-PROOF EQUIPMENT.

Protective Gloves:RUBBER GLOVES.

Eye Protection:CHEMICAL SAFETY GOGGLES.

Other Protective Equipment:PROTECTIVE CLOTHING AS REQUIRED TO MINIMIZE EXPOSURE FROM PROLONGED OR REPEATED CONTACT. EYE BATH AND SAFETY SHOWER.

Work Hy

gienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

NOTE TO PHYSICIAN: IF MORE THAN 2 ML/KG HAS BEEN INGESTED AND VOMITING HAS NOT OCCURED, EMESIS SHOULD BE INDUCED WITH SUPERVISION. KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION. IF CONVULSION OR UNCONSCIOUSNESS OCCUR BEFORE EMESIS, GIVE GASTRIC LAVAGE USING CUFFED ENDOTRACHEAL TUBE.

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

HCC:F2

Boiling Pt:=98.3C, 209.F

B.P. Text:209-230F

Vapor Pres:124 @ 100F

Vapor Density:3.3

Spec Gravity:0.75

Evaporation Rate & Reference:3.6 (N-BUTYL ACETATE = 1)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:LIGHT COLORED LIQUID. HYDROCARBON ODOR.

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION

Haz

ardous Decomposition Products:CARBON MONOXIDE, INCOMPLETELY BURNED
CARBON PRODUCTS.

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

Waste Disposal Methods:CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER.
DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL
REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manne
r whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.