

SHELL OIL COMPANY -- CYCLO SOL(R) 150 AROMATIC SOLVENT -- 6810-00-244-7639

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Product Identification  
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Product ID:CYCLO SOL(R) 150 AROMATIC SOLVENT

MSDS Date:09/22/1995

FSC:6810

NIIN:00-244-7639

MSDS Number: CDMMG

=== Responsible Party ===

Company Name:SHELL OIL COMPANY

Address:HEALTH, SAFETY AND ENVIRONMENT

Box:4320

City:HOUSTON

State:TX

ZIP:77210

Country:US

Info Phone Num:713-241-4819/414

1/2252 FAX -6511

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

Resp. Party Other MSDS Num.:MSDS #7.866 / SHELL CODE: 83001

Preparer's Name:J. C. WILLETT

Chemtrec Ind/Phone:(800)424-9300

CAGE:54527

=== Contractor Identification ===

Company Name:EMULTEC INDUSTRIAL PRODUCTS INC

Address:1150 HAYDEN DR SUITE 100

Box:City:CHARROLLTON

State:TX

ZIP:75006

Country:US

Phone:972-417-1288

Contract Num:SP0450-99-M-NF69

CAGE:0WA27

Company Name:SHELL OIL COMPANY

Address:Box:2463

City:HOUSTON

State:TX

ZIP:77210

Country:US

Phone:800-231-6950

CAGE:54527

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Composition/Information on Ingredients  
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Ingred Name:HEAVY AROMATIC NAPHTHA (SOLVENT NAPHTHA) CONTAINS  
INGREDIENTS #2 & #3.

CAS:64742-94-5

RTECS #:WF3100000

= Wt:100.

Other REC Limits:NONE RECOMMENDED

Ingred Name:TRIMETHYLBENZENES (PSEUDOCUMENE)

CAS:95-63-6

RTECS #:DC3325000

= Wt:10.

Other REC Limits:NONE RECOMMENDED

OSHA PEL:125 MG/M3

RTECS #:QJ0525000

= Wt:6.

Other REC Limits:NONE RECOMMENDED

OSHA PEL:10 PPM

ACGIH TLV:10 PPM/15 STEL; 9596

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

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

LD50 LC50 Mixture:PRODUCT'S LD50 (ORAL RAT) WAS NOT STATED

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

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

Health Hazards Acute and Chronic:EYE-LIQUID IS MINIMALLY IRRITATING TO THE EYE. HIGH VAPOR CONCENTRATIONS MAY

BE IRRITATING. SLIN-LIQUID

IS MILDLY IRRITATING TO THE SKIN. PROLONGED OR REPEATED CONTACT CAN RESULT IN DEFATTING & DRYING OF THE SKIN WHICH MAY RESULT IN SKIN IRRITATION & DERMATITIS. INHALATION-HIGH VAPOR CONCENTRATIONS MAY PRODUCE NOSE, THROAT & RESPIRATORY IRRITATION & MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION. INGESTION-INGESTION OF PRODUCT MAY RESULT IN VOMITING, ASPIRATION OF VOMITUS INTO THE LUNGS MUST BE AVOIDED AS EVEN SMALL QUANTITIES MAY RESULT IN A

SPIRATION

PNEUMONITIS.

Effects of Overexposure:IRRITATION AS NOTED IN HEALTH HAZARDS. EARLY TO MODERATE CNS DEPRESSION EVIDENCED BY GIDDINESS, HEADACHE, DIZZINESS, NAUSEA; IN EXTREME CASES, UNCONSCIOUSNESS AND EVEN DEATH MAY OCCUR. ASPIRATION P NEUMONITIS MAY BE EVIDENCED BY COUGHING,LABORED BREATHING, AND CYANOSIS (BLUISH SKIN); IN SEVERE CASES DEATH MAY OCCUR.

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

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

First Aid:EYE-FLUSH EYES WITH PLENTY OF WATER FOR 15 MIN WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. EYE-REMOVE CONTAMINATED CLOTHES/SHOES & WIPE EXCESS FROM SKIN. FLUSH SKIN WITH WATER. FOLLOW BY WASHING WITH SOAP & WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. DO NOT REUSE CLOTHING UNTIL CLEANED. INHALATION-REMOVE VICTIM TO FRESH AIR & PROVIDE OXYGEN IF BREATHING

IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION. INGESTION-DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. GET MEDICAL ATTENTION.

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

Flash Point Method:TCC

Flash Point:=61.1C, 142.F

Lower Limits:1

Upper Limits:6

Extinguishing Media:WATER FOG, FOAM, DRY CHEMICAL, CARBON DIOXIDE. DO NOT USE DIRECT STREAM OF WATER. PRODUCT WILL FLOAT & MAY REIGNITE ON SURFACE OF WATER.

Fire Fighting Procedures:DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES & RUBBER BOOTS) INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

Unusual Fire/Explosion Hazard:COOL FIRE EXPOSED CONTAINERS WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE.

CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE.

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

Spill Release Procedures:CAUTION. COMBUSTIBLE. LARGE SPILL-ELIMINATE ALL IGNITION SOURCES. WEAR APPROPRIATE RESPIRATOR & OTHER PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK IF SAFE. DIKE & CONTAIN. REMOVE WITH VACUUM TRUCK OR PUMP TO STORAGE/SALVAGE

VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT MATERIAL. PLACE IN NON-LEAKING CONTAINERS & SEAL FOR DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACES.

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

Handling and Storage Precautions:KEEP LIQUID & VAPOR AWAY FROM HEAT, SPARKS & FLAME. SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE LIQUID EVEN IN THE ABSENCE OF SPARKS OR FLAME. USE WITH ADEQUATE VENTILATION

Other Precautions:EXTINGUISH PILOT LIGHTS, CIGARETTES &

TURN OFF ALL

IGNITION SOURCES PRIOR TO USE & UNTIL VAPORS ARE GONE. VAPORS MAY ACCUMULATE & TRAVEL TO IGNITION SOURCES DISTANT FROM THE HANDLING SITE. FLASH FIRE MAY RESULT. KEEP CLOSED WHEN NOT IN USE.

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

Respiratory Protection:AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. USE A NIOSH-APPROVED RESPIRATOR AS REQUIRED TO PREVENT OVEREXPOSURE. I/AW 29CFR1910.154, USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPOR.

Ventilation:USE EXPLOSION PROOF VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS.

Protective Gloves:WEAR CHEMICAL RESISTANT GLOVES

Eye Protection:SAFETY GLASSES OR GOGGLES AS APPROPRIATE.

Other Protective Equipment:CHEMICAL RESISTANT CLOTHING AS NECESSARY TO MINIMIZE SKIN CONTACT.

Work Hygienic Practices:WASH W/SOAP & WATER BEFORE EATING, DRINKING, ETC. AIR DRY CONTAMINATED CLOTHING THEN LAUNDRY BEFORE REUSE.

Supplemental

Safety and Health

KEEP CONTAINERS CLOSED WHEN NOT IN USE. EVEN THOSE THAT HAVE BEEN EMPTIED CAN CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, DRILL, GRIND, WELD OR PERFORM SIMILAR OPERATIONS ON OR NEAR CONTAINERS. DO NOT PRESSURIZE DRUM CONTAINERS TO EMPTY THEM.

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

HCC:V4

NRC/State Lic Num:NONE

Boiling Pt:>179.4C, 355.F

B.P. Text:355-420

Melt/Freeze Pt:M.P/F.P Text:NOT AVAILABLE

Vapor Pres:5.2

Vapor Density:4.8

Specific Gravity:

0.9

VOC Grams/Liter:7.35

Evaporation Rate & Reference:0.07 (BUTYL ACETATE=1)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:COLORLESS LIQUID, AROMATIC HYDROCARBON ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

AVOID CONTACT WITH STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:AVOID HEAT, FLAME

Hazardous Decomposition Products:CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUND

# DS DURING COMBUSTION

## ===== Toxicological Information =====

Toxicological Information:SHELL CYCLO SOL(R) 150 AROMATIC SOLVENT:  
ACUTE ORAL LD50=13.3 ML/KG (RAT), ACUTE DERMAL LD50>5 ML/KG  
(RABBIT), ACUTE INHALATION LC50>580 PPM/4H (RAT).

## ===== Disposal Considerations =====

Waste Disposal Methods:UNDER EPA-CWA, PRODUCT IS AN OIL & SPILLS ON  
WATER MUST BE REPORTED APPROPRIATELY. MATERIAL IS IGNITABLE UNDER  
EPA-RCRA. REF  
ER TO LATEST EPA OT STATE REGULATIONS REGARDING PROPER  
DISPOSAL.

## ===== MSDS Transport Information =====

Transport Information:DEPARTMENT OF TRANSPORTATION CLASSIFICATION:  
COMBUSTIBLE LIQUID, III. D.O.T PROPER SHIPPING NAME: PETROLEUM  
DISTILLATES, N.O.S. (PETROLEUM NAPHTHA). OTHER REQUIREMENTS: 1268,  
GUIDE 27. THIS PRODUCT CON TAINS TRIMETHYLBENZENE (17%) WHICH  
AREMARINE POLLUTANTS UNDER CFR 172.101, APPENDIX B. NOT REGULATED  
BY D.O.T. IF IN  
A CONTAINER OF 119 GALLON CAPACITY OR LESS.

## ===== Regulatory Information =====

SARA Title III Information:IN ACCORDANCE WITH SARA TITLE III, SECTION  
313, THE ATTACHED ENVIRONMENTAL DATA SHEET (EDS) SHOULD ALWAYS BE  
COPIED AND SENT WITH THE MSDS.

Federal Regulatory Information:THIS PRODUCT IS LISTED ON THE EPA/TSCA  
INVENTORY OF CHEMICAL SUBSTANCES. PER 40 CFR PART B2. THIS PRODUCT  
DOES NOT CONTAIN NOR WAS IT DIRECTLY MANUFACTURER WITH ANY CLASS

I  
OR CLASS II OZONE DEPLETING SUBSTANCES.

State Regulatory Information:TRIMETHYLBENZENE, 1,2,4- (CAS 95-63-6);  
(10%): CA, MA, MN, NJ, PA. NAPHTHALENE (CAS 91-20-3); (6%): CA, CT,  
FL, IL, LA, MA, ME, MN, NJ, PA, RI.

## ===== Other Information =====

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