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Product ID:SHELL CYCLO (R) 150 AROMATIC SOLVENT MSDS Date:09/22/1995 FSC:6810 NIIN:00-244-7639 Status Code:A MSDS Number: CJTWW === Responsible Party === Company Name: SHELL OIL COMPANY, PRODUCT SAFETY AND COMPLIANCE Box:4320 **City:HOUSTON** State:TX ZIP:77210 Country:US Info Phone Num:713-241-4819 Emergency Phone Num:713-473-9461/800-424-9300(CHEMTREC) Resp. Party Other MSDS Num.: SHELL MSDS NUMBER 7.866 Preparer's Name: J. C. WILLETT Chemtrec Ind/Phone:(800)424-9300 CAGE:TO320 === 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:SPO450-99-M-NH94 CAGE:0WA27 Company Name: SHELL OIL COMPANY, PRODUCT SAFETY AND COMP LIANCE Address:Box:4320 City:HOUSTON State:TX ZIP:77210 Country:US Phone:713-241-4819 CAGE:TO320 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: PSEUDOCUMENE (1,2,4-TRIMETHYLBENZENE) CAS:95-63-6 RTECS #:DC3325000 = Wt:10.

ed Name:NAPHTHALENE CAS:91-20-3 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

LD50 LC50 Mixture:13.3 ML/KG

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 M

AY BE IRRITATING. SKIN-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. ING ESTION-INGESTION OF PRODUCT MAY RESULT IN VOMITING: ASPIRATION OF VOMITUS INTO THE LUNGS MUST BE AVOIDED AS EVEN SMALL QUANTITIES MAY RESULT IN ASPIRATION

ASPIRATION

PNEUMONITIS.

Explanation of Carcinogenicity:NONE.

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:EYE-FLUSH EYES WITH PLENTY OF WATER FOR 15 MIN WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHES/SHOES & WIPE EXCESS FROM SKIN. FLUSH SKIN WITH WATER. FOLLOW BY WASH ING WITH SOAP & WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. DO NOT REUSE CLOTHING UNTIL CLEANED. INHALATION-REMOVE VICTIM TO FRES H AIR & PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICI AL 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 MED ICAL ATTENTION.

Flash Point Method:TCC Flash Point:=61.1C, 142.F Lower Limits:1 **Upper Limits:6** Extinguishing Media:WATER FOG, FOAM, DRY CHEMICAL, CA **RBON 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 APPARATU S. COOL FIRE EXPOSED CONTAINERS WITH WATER. Unusual Fire/Explosion Hazard: COOL FIRE EXPOSED CONTAINERS WITH WATER TO PREVENT VAPOR PRESSURE BUILDU P WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME COTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE.

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

/SALVAGE VESS ELS. SOAK UP RESIDUE WITH AN ABSORBENT MATERIAL. PLACE IN NON-LEAKING CONTAINERS & SEAL FOR DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACES. SMALL SPILL:TAKE UP WITH ABSORBENT MATERIAL

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 VENTILATIO N. EXTINGUISH PILOT LIGHTS, CIGARETTES & TURN OFF ALL IGNITION SOURCES PRIOR TO USE & UNTIL VAPORS ARE GONE. Other Precautions: VAPORS MAY ACCUMULATE & TRAVEL TO IGNITION SOURCES DISTANT FROM THE HANDLING SITE. FLASH FIRE MAY RESULT. KEEP CLOSED WHEN NOT IN USE.EMPTY CONTAINERS MAY CONTAIN EXLOSIVE VAPORS. Respiratory Protection: AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. USE A NIOSH-APPROVED RESPIRATOR AS **REQUIRED TO PREVENT** OVEREXPOSURE. I/A/W 29CFR1910.154, USE EITHER AN ATMOSHPERE-SUPPLYING RESPIRATOR OR AN AIR-PURIF YING 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, DRINKIN, ETC. AIR DRY CONTAMINATED CLOTHING THEN LAUNDER BEFORE REUSE. Supplemental Safety and Health CHRONIC EXPOSURE TO VAPORS OF A MIXTURE CONTAINING 50% PSEUDOCUMENE (AND POSSIBLY CONTAMINATED WITH BENZENE) CAUSED DECREASED WEIGHT GAIN AND BLOOD CHANGES (LYMPHOPENIA AND NEUTROPHILIA). LIVER, LUNG, SPLEEN, KIDNEY, AND BONE MARROW EFFECTS IN RATS. PSEUDOCUMENE AND NAPHTHALENE WERE NOT MUTAGENIC IN THE AMES TEST.

======= Physical/Chemical P

roperties ==============

HCC:V4

NRC/State Lic Num:NONE Boiling Pt:B.P. Text:355-420 F Melt/Freeze Pt:M.P/F.P Text:NOT AVAILABLE Decomp Temp:Decomp Text:NOT PROVIDED Vapor Pres:5.2 AT 100 F Vapor Density:4.8 Volatile Org Content %:100 Spec Gravity:0.9 AT 60 F Evaporation Rate & amp; Reference:0.07 (N-BUTYL ACETATE=1) Solubility in Water:NEGLIGIBLE Appearance and Odor:COLORLESS LIQUID, AROMATIC HYDROCARBON ODOR Percent Volatiles by Volume:100

========= 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 COMPOUNDS MAY BE FORMED DURING COMBUSTION

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 INHALA TION LC50>580 PPM/4H (RAT).

Waste Disposal Methods:UNDER EPA-CWA, PRODUCT IS CONSIDERED AN OIL UNDER 311. SPILLS INTO OR LEADING TO SURFACE WATERS THAT CAUSE A SHEEN MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER, 800-424-8802. MATERIAL IS IGNITABLE HAZARDOUS WASTE UNDER EPA-RCRA. REFER TO LATEST EPA OR STATE REGS REGARDING PROPER DISPOSAL.

Transport Information:DEPARTMENT OF TRANSPORTATION CLASSIFICATION: COMBUSTIBLE LIQUID, III. D.O.T PROPER SHIPPING NAME: PETROLEUM DISTILLATES, N.O.S. (PETROLEUM NAPTHA). OTHER REQUIREMENTS: UN1268, GUIDE 27. THIS PRODUCT C ONTAINS TRIMETHYLBENZENES (17%) WHICH ARE MARINE POLLUTANTS UNDER 29 CFR 172.101, APPENDIX B. NOT REGULATED BY D.O.T. IF IN A CONTAINER OF 119 GALLON CAPACITY OR LESS.

SARA Title

III Information: IN ACCORDANCE WITH SARA TITLE III, SECTION 313, THE 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 82, THIS PRODUCT DOES NOT CONTAIN NOR WAS IT DIRECTLY MANUFACTURED WITH ANY CLASS I OR CLASS II OZONE DEPLETING SUBSTANCES.
- State Regulatory Information: THE FOLLOWING CHEMICALS ARE SPECIFICALLY LISTED BY IND

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

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