

SHELL OIL COMPANY -- 83996, Q5119, SHELLSOL W HT -- 6810-00-238-8119

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

Product ID:83996, Q5119, SHELLSOL W HT

MSDS Date:06/05/2000

FSC:6810

NIIN:00-238-8119

Status Code:A

MSDS Number: CLCPK

=== Responsible Party ===

Company Name:SHELL OIL COMPANY

Address:1 SHELL PLZ

Box:2463

City:HOUSTON

State:TX

ZIP:77342-2463

Country:US

Info Phone Num:800-231-6950

Emergency Phon

e Num:713-241-4819

Resp. Party Other MSDS Num.:8940-17

Preparer's Name:SUSAN EASTRIDGE

Chemtrec Ind/Phone:(800)424-9300

CAGE:52527

=== Contractor Identification ===

Company Name:B&M ENTERPRISES

Address:17350 TEMPLE AVE

Box:City:LA PUENTE

State:CA

ZIP:91744

Country:US

Phone:818-912-1275

Contract Num:SP0450-01-M-D118

CAGE:097K0

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:SHELL OIL COMPANY
Address:1 SHELL PLZ
Box:2463
City:HOUSTON
State:TX
ZIP:77342-2463
Country:US
Phone:800-231-6950
CAGE:52527

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

Ingred Name:SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC
CAS:64742-89-8
= Wt:100.

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

LD50 LC50 Mixture:ORAL LD50(RAT): >7.1G/KG NAPHTHA
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:TARGET OR
GANS: HEART, AUDITORY SYSTEM.

INHALATION-BREATHING OF HIGH VAPOR CONCENTRATIONS MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION. CONTINUED INHALATION MAY RESULT IN UNCONSCIOUSNESS/DEATH. CHRONIC ABUSE HAS BEEN ASSOCIATED WITH IRREGULAR HEART RHYTHMS & POTENTIAL CARDIAC ARREST. EYE-MAY CAUSE TEMPORARY DISCOMFORT OR IRRITATION. SKIN-MAY BE SLIGHTLY IRRITATING. PROLONGED OR REPEATED SKIN CONTACT CAN CAUSE DEFATTING & DRYING OF THE SKIN. INGESTION-LIQUID CAN DIRECTLY ENTER

THE LUNGS

(ASPIRATION) WHEN SWALLOWED OR VOMITED. SERIOUS LUNG DAMAGE & POSSIBLY FATAL CHEMICAL PNEUMONIA (CHEMICAL PNEUMONITIS) CAN DEVELOP IF THIS OCCURS.

Explanation of Carcinogenicity:MUTAGENICITY: SOME EFFECTS TO CHROMOSOMES BUT NO MUTAGENIC EFFECTS WERE OBSERVED IN GENOTOXICITY STUDIES CONDUCTED FOR SIMILAR HYDROCARBON SOLVENT MIXTURES. THE BIOLOGICAL SIGNIFICANCE OF THE CHROMOSOMAL FINDINGS IS UNKNOWN.

Effects of Overexposure:INHALATION: BREATHING OF HIGH VAPOR CONCENTRATIONS MAY CAUSE CNS DEPRESSION RESULTING IN DIZZINESS, LIGHT-HEADEDNESS, HEADACHE, NAUSEA AND LOSS OF COORDINATION. CONTINUED INHALATION MAY RESULT IN UNCONSCIOUSNESS/DEATH. VAPORS EXPECTED TO BE SLIGHTLY IRRITATING. PROLONGED AND REPEATED EXPOSURES TO HIGH CONCENTRATIONS MAY CAUSE HEARING LOSS. SKIN: PROLONGED OR REPEATED SKIN CONTACT CAN CAUSE DEFATTING & DRYING OF THE SKIN WHICH MAY RESULT IN A BURNING SENSATION AND A DRIED, CRACKED APPEARANCE. INGE

STION: SERIOUS LUNG DAMAGE AND POSSIBLY
FATAL CHEMICAL PNEUMONITIS (CHEMICAL PNEUMONITIS) CAN DEVELOP IF
THIS OCCURS.

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

First Aid: INHALATION-MOVE VICTIM TO FRESH AIR. IF DIFFICULTY
BREATHING/TIGHTNESS IN CHEST, DIZZY, VOMITING OR UNRESPONSIVE, GIVE
100% OXYGEN WITH RESCUE BREATHING OR CPR AS REQUIRED & TRANSPORT TO
NEAREST MEDICAL FACILITY. SKIN-WIPE OFF EXCESS MATERIAL. FLUSH
SKIN WITH WATER. FOLLOW
BY WASHING WITH SOAP IF AVAILABLE. IF
REDNESS, PAIN, BLISTERS OCCUR, TAKE TO HOSPITAL FOR TREATMENT.
EYE-FLUSH WITH WATER WHILE HOLDING EYES OPEN. REST EYES FOR 30
MINS. CONSULT PHYSICIAN IF NEEDED. INGESTION-DO NOT INDUCE
VOMITING. RINSE MOUTH. GET MEDICAL ADVICE. "SEE OTHER INFO"

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

Flash Point Method: SCC

Flash Point: -7.2C, 19.F

Lower Limits: 1

Upper Limits: 8

Extinguishing Media: USE WATER FOG, FOAM, DRY CHEM
ICAL OR CO2 TO

EXTINGUISH FLAMES. DO NOT USE A DIRECT STREAM OF WATER. MATERIAL
WILL FLOAT & REIGNITE ON SURFACE OF WATER.

Fire Fighting Procedures: EXTREMELY FLAMMABLE. CLEAR FIRE AREA OF ALL
NON-EMERGENCY PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE WITHOUT
FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COAT, GLOVES,
RUBBER BOOTS), INCLUDING A POSITIVE PRESSURE, NIOSH APPROVED,
SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard: CONTAINERS EXPOSED TO INTENSE
HEAT FROM

FIRES SHOULD BE COOLED WITH WATER TO PREVENT WEAKENING OF CONTAINER
STRUCTURE WHICH COULD RESULT IN CONTAINER RUPTURE. VAPORS ARE
FLAMMABLE AND HEAVIER THAN AIR AND MAY TRAVEL TO REMOTE IGNITION
SOURCE CAUSING A FLASHBACK FIRE DANGER.

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

Spill Release Procedures: SHUT OFF SOURCE OF LEAK IF SAFE TO DO SO. DIKE
& CONTAIN SPILL. USE WATER SPRAY (FOG) TO REDUCE VAPORS OR DIVERT
VAPOR CLOUD DRIFT.

IF VAPOR CLOUD FORMS, USE WATER FOG TO SUPPRESS OR BLANKET SPILL AREA WITH FOAM. REMOVE WITH VACUUM TRUCK OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR SUITABLE MATERIAL & DISPOSE OF PROPERLY. FLUSH AREA WITH WATER.

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

Handling and Storage Precautions:STORAGE-KEEP CONTAINERS CLOSED WHEN NOT IN USE. GROUND FIXED EQUIPMENT. HANDLING-STATIC ELECTRICITY MAY ACCUMU

LATE & CREATE A FIRE HAZARD. SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE LIQUID MATERIA L. VAPORS ARE FLAMMABLE & HEAVIER THAN AIR.

Other Precautions:HANDLING -VAPOR MAY TRAVEL ACROSS THE GROUND & REACH REMOTE IGNITION SOURCES CAUSING A FLASHBACK FIRE DANGER. KEEP AWAY FROM HEAT, SPARKS & FLAME. EXTINGUISH PILOT LIGHTS, CIGARETTES & TURN OFF OTHER IGNITION SOURCES PRIOR TO USE & UNTIL ALL VAPORS HAVE DISSIPATED. USE EXPLOSION-PROOF VENTILATION.

=====**Exposure**

Controls/Personal Protection =====

Respiratory Protection:IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONCENTRATIONS TO A LEVEL WHICH IS ADEQUATE TO PROTECT WORKER HEALTH, AN APPROVED RESPIRATOR MUST BE WORN. RESPIRATOR SELECTION, USE AND MAINTENANCE SH OULD BE IN ACCORDANCE WITH REQUIREMENTS OF OSHA RESPIRATORY PROTECTION STANDARD, 29CFR1910.134.

Ventilation:ADEQUATE EXPLOSION-PROOF VENTILATION TO CONTROL AIRBORNE CONCENTRATIONS BELOW THE EXPOSURE GUIDELINES/ LIMITS.

Protective Gloves:NITRIL RUBBER GLOVES.

Eye Protection:CHEMICAL GOGGLES., IF LIQUID CONTACT IS LIKELY OR SAFETY GLASSES.

Other Protective Equipment:USE PROTECTIVE CLOTHING WHICH IS CHEMICAL RESISTANT TO THIS MATERIAL. SELECTION OF PROTECTIVE CLOTHING DEPENDS ON POTENTIAL EXPOSURE CONDITIONS AND MAY INCLUDE GLOVES, BOOTS, SUITS AND OTHER ITEMS.

Work Hygienic Practices:AVOID CONTACT WITH EYES, SKIN & CLOTHING. AVOID PROLONGED OR REPEATED CONTACT WITH EYES, SKIN & CLOTHI

NG. WASH

THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

RESPIRATOR: TYPES: AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS,
SUPPLIED-AIR RESPIRATOR, SELFCONTAINED BREATHING APPARATUS: FOR USE
IN ENVIRONMENT WITH UNKNOWN CONCENTRATIONS OR EMERGENCY SITUATIONS.

* HMIS RATING (HEALTH, FIRE REACTIVITY): 1,3,0.

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

HCC:F2

Boiling Pt:B.P. Text:209-230F

Vapor Pres:40 MMHG@ 68F

Vapor Density:3.3

Spec Gravity:0.7399

@60F

VOC Grams/Liter:6.1

Evaporation Rate & Reference:3.2 (NBUAC=1)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:LIGHT COLORED LIQUID; HYDROCARBON ODOR

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

Stability Indicator/Materials to Avoid:YES

CONTACT WITH STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:PREVENT VAPOR ACCUMULATION. AVOID HEAT,
SPARKS, FLAME AND OTHER IGNITION SOURCES.

Hazardous Decomposition Products:CARBON MONOXIDE AND UNIDENTIFIED
OR

ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

===== Toxicological Information =====

Toxicological Information:ACUTE TOXICITY: HYDROCARBON SOLVENT:

INHALATION-LC50=15,000 PPM (V)(RAT) 4 HR. SOLVENT NAPHTHA, LIGHT
ALIPHATIC, DERMAL-LD50>2.84(RAT). SOLVENT NAPHTHA, LIGHT ALIPHATIC,
ORAL-LD50>7.1 G/KG (RAT). EYE IRRITATION: MINIMAL IRRITATION
[RABBIT] MATERIAL TESTED-SOLVENT NAPHTHA, LIGHT ALIPHATIC. SKIN
IRRITATION: MINIMALLY IRRITATING MATERIAL TESTED-HYDROCARBON

ESTED-HYDROCARBON

SOLVENT. OTHER TESTING: KIDNEY EFFECTS IN MALE RATS WERE OBSERVED
IN LAB ANIMALS EXPOSED TO A SIMILAR MATERIAL. EFFECTS WERE
CONSISTENT WITH MALE HYALINE DROPLETS NEPHROPATHY WHICH IS
QUESTIONABLE SIGNIFICANCE TO HUMAN HEALTH.

===== Ecological Information =====

Ecological:THIS SECTION WILL BE UPDATED AS ECOLOGICAL REVIEWS ARE
COMPLETED.

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

Waste Disposal M

methods: UNDER EPA-RCRA (40CFR 261) IF THIS MATERIAL BECOMES A WASTE MATERIAL, IT WOULD BE AN IGNITABLE HAZARDOUS WASTE, HAZARDOUS WASTE NUMBER D001. REFER TO THE LATEST EPA OR STATE REGULATIONS REGARDING PROPER DISPOSAL.

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

Transport Information: US DEPARTMENT OF TRANSPORTATION CLASSIFICATION:

PROPER SHIPPING NAME: PETROLEUM DISTILLATES, N.O.S. TECHNICAL

NAMES: PETROLEUM NAPHTHA. IDENTIFICATION NUMBER: UN1268.

HAZARD

CLASS/DIVISION: 3 (FLAMMABLE LIQUID). PACKING GROUP: II. OIL: THIS MATERIAL IS AN "OIL" UNDER 49 CFR PART 130 WHEN TRANSPORTED IN A CONTAINER OF 3500 GALLON CAPACITY OR GREATER. EMERGENCY RESPONSE GUIDE#: 128.

===== Regulatory Information =====

SARA Title III Information: SARA HAZARD CATEGORIES (311/312): FIRE

HAZARD. DELAYED (CHRONIC) HEALTH HAZARD. THIS MATERIAL IS COVERED BY CERCLA PETROLEUM EXCLUSION.

Federal Regulatory Informa

tion: RESOURCE CONSERVATION & RECOVERY ACT

(RCRA) CLASSIFICATION: D001 (IGNITABLE HAZARDOUS WASTE). TOXIC SUBSTANCE CONTROL ACT (TSCA) STATUS: THIS MATERIAL IS LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL SUBSTANCES. REPORTING-THIS MATERIAL IS COVERED BY THE EPA'S CERCLA PETROLEUM EXCLUSION.

THEREFORE, RELEASES TO THE ENVIRONMENT MAY NOT BE REPORTABLE UNDER CERCLA. NOTIFY AUTHORITIES IF ANY EXPOSURES TO THE GREATER PUBLIC OR ENVIRONMENT OCCURS OR IS LIKELY TO OCCUR.

State Regulatory Information: CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): TOLUENE (108-88-3),