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EQUILON ENTERPRISES LLC -- MEROPA 68, 02319 -- 9150-00-023-5249

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

Product ID:MEROPA 68, 02319

MSDS Date:01/04/1999

FSC:9150

NIIN:00-023-5249

MSDS Number: CJTVT === Responsible Party ===

Company Name: EQUILON ENTERPRISES LLC

Box:674414 City:HOUSTON

State:TX

ZIP:77267-4414 Country:US

Info Phone Num:877-276-7285

Emergency Phone Num:877-276-7283

Resp. Party Other MSDS

Num.:GEN05ET

Chemtrec Ind/Phone:(800)424-9300

CAGE:1D3L3

=== Contractor Identification ===

Company Name: EQUILON ENTERPRISES LLC

Address:1100 LOUISIANA SUITE 2200

Box:City:HOUSTON

State:TX ZIP:77002 Country:US

Phone:614-886-7508

CAGE:1D3L3

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

Ingred Name:PRODUCTS REPRESENTED BY MSDS MAY CONTAIN ONE OR MORE OF INGREDIENTS 2-6 IN THE CONCENTRATION RANGES LISTED

Ingred Name:MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-DEWAXED HE AVY

PARAFFINIC (SEVERE SOLVENT-REFINING AND/OR HYDROTREATMENT); (SOLVENT-DEWAXED HEAVY PARAFFINIC PETROLEUM DISTILLATES)

CAS:64742-65-0

RTECS #:PY8038501

Minumum % Wt:49.99

Maxumum % Wt:79.99

Ingred Name: RESIDUAL OILS (PETROLEUM), HYDROTREATED

CAS:64742-57-0 Minumum % Wt:10. Maxumum % Wt:99.99

Ingred Name: SOLVENT DEASPHALTED RESIDUAL OIL (PETROLEUM)

CAS:64741-95-3 Minumum % Wt:20. Maxumum % Wt:79.99

Ingred Name: MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATMENT (SEVERE)

HEAVY PAR

AFFINIC; (HYDROTREATED HEAVY PARAFFINIC PETROLEUM DISTILLATES)
CAS:64742-54-7
RTECS #:PY8035501
Minumum % Wt:20.

Ingred Name:ASPHALT CAS:8052-42-4 RTECS #:Cl9900000 Minumum % Wt:35. Maxumum % Wt:49.99 OSHA PEL:see Table Z-2 ACGIH TLV:5 MG/M3 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Maxumum % Wt:34.99 ACGIH TLV:5 MG/M3

Ingred Name: TOLUENE

CAS:108-88-3

RTECS #:XS5250000 Minumum % Wt:.01 Maxumum % Wt:.09

OSHA PEL:see Table Z-2

ACGIH TLV:188 MG/M3;50 PPM

Ingred Name: ISOPROPYL ALCOHOL

CAS:67-63-0

RTECS #:NT8050000

OSHA PEL:980 MG/M3;400 PPM ACGIH TLV:983 MG/M3;400 PPM ACGIH STEL:1230 MG/M3:500 PPM

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

LD50 LC50 Mixture:LD50: (ORAL, RAT) >5 G/KG (SIMILAR PROD)

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: EYES:MAY CAUSE MINIMAL IRRIT,

EXPERIENCED AS TEMPORARY DISCOMFORT. SKIN: BRIEF CONTACT IS NOT

IRRIT. PRLN

- GD CONTACT, AS W/CLTHG WETTED W/MATL, MAY CAUSE DEFAT OF SKIN OR IRRIT, SEEN AS LOCAL RE DNESS W/POSS MILD DISCOMFORT. OTHER THAN POTNTL SKIN IRRIT EFTS NOTED ABOVE, ACUTE (SHORT TERM) ADVERSE EFTS ARE NOT EXPECTED FROM BRIEF SKIN CONTACT; SEE OTHER EFTS, BELOW & SECTION 11 FOR INFO REGAR DING POTNTL LONG TERM EFTS. INHAL: VAPS/MIST, IN EXCESS OF PERMISSIBLE CONCS, OR IN UNUSUALLY HIGH CONCS GENERATED FROM SPRAYING, HEATING MATL OR AS FROM EXPOS IN POORLY VENTD AREAS
- OR CONFINED SPACES, MAY CAUSE IRRIT OF (EFTS OF OVEREXP)
- Effects of Overexposure:HLTH HAZS: NOSE & THROAT, HDCH, NAUS & DROW.
 INGEST: IF MORE THAN SEVERAL MOUTHFULS SWALLOWED, ABDOMINAL
 DISCOMFORT, NAUS & DIARR MAY OCCUR. SENSIT PROPERTIES: UNKNOWN.
 TOLUENE APPEARS ON THE NAVY LI ST OF OCCUP CHEM REPRO HAZS. SEEK
 CONSULTATION FROM APPROP HEALTH PROFESSIONALS CONCERNING LATEST HAZ
 LIST INFO & SAFE HNDLG & EXPOS INFO . NO ADVERSE EFTS DOCUMENTED IN
 HUMANS AS RSLT OF C
- HRONI C EXPOS. SECTION 11 MAY CONTAIN APPLIC
 ANIMAL DATA. OTHER REMARKS: WHEN OVERHEATED, PROD MAY RELEASE
 HYDROGEN SULFIDE (H2S) GAS. H2S CONCS ABOVE PERMISSIBLE CONCS CAN
 CAUSE IRRIT OF EYES & RESP TRACT, HDCH, DIZZ, NAUS, VOMIT,
 (SUPDAT)
- Medical Cond Aggravated by Exposure:BECAUSE OF ITS DEFATTING PROPERTIES, PROLONGED AND REPEATED SKIN CONTACT MAY AGGRAVATE AN EXISTING DERMATITIS (SKIN CONDITION).

First Aid:EYES: FLUSH EYES W/PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MED ATTN IF EYE IRRIT PERSISTS. SKIN: WASH SKIN W/PLENTY OF SOAP & WATER FOR SEVERAL MINUTES. GET MED ATTN IF SKIN IRRIT DEVELOPS OR PER SISTS. INGEST: IF MORE THAN SEVERAL MOUTHFULS OF THIS MATERIAL ARE SWALLOWED, GIVE TWO GLASSES OF WATER (16 OZ). GET MED ATTN. INHAL: IF IRRIT, HDCH, NAUS OR DROW OCCURS, REMOVE TO FRESH AIR. GET MED ATTN IF BRTHG BECOMES DFCLT OR RESP IRRIT PERSISTS. OTHER IN

STRUCTIONS: REMOVE & DRY-CLEAN OR LAUNDER CLTHG
SOAKED OR SOILED W/THIS MATL BEFORE REUSE. DRY CLEANING OF CONTAM
CLTHG MAY BE (SUPDAT)

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

Flash Point Method:COC Flash Point:=212.8C, 415.F 415-480F

Lower Limits:NOT DETERM Upper Limits:NOT DETERM

Extinguishing Media:USE WATER SPRAY, DRY CHEMICAL, FOAM OR CARBON DIOXIDE TO EXTINGUISH FLAMES.

Fire Fighting Procedures:USE NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIP

- MENT . USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS. WATER OR FOAM MAY CAUSE FROTHING.
- Unusual Fire/Explosion Hazard: HYDROGEN SULFIDE (H2S) MAY BE RELEASED IF OVERHEATED.

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

Spill Release Procedures:(TRANSPORTATION SPILLS: CHEMTREC 800-424-9300)
VENT AREA. AVOID BRTHG VAPOR. WEAR APPROP PERSONAL PROT EQUIP
INCLUDING APPROP NIOSH APPRVD RESP PROT. CONTAIN SPILL IF POSS.
WIPE UP OR ABSORB ON SUITAB LE MATL &

SHOVEL UP. PREVENT ENTRY INTO

SEWERS & WATERWAYS. AVOID CONTACT W/SKIN, EYES OR CLTHG. IF MORE THAN 5,208,333 LBS OF PROD IS SPILLED, THEN REPORT SPILL (OTHER INFO)

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

Handling and Storage Precautions:MINIMUM FEASIBLE HANDLING TEMPERATURES SHOULD BE MAINTAINED. PERIODS OF EXPOSURE TO HIGH TEMPERATURES SHOULD BE MINIMIZED. WATER CONTAMINATION SHOULD BE AVOIDED.

====== Exposure Controls/Personal Protect ion ========

Respiratory Protection: AIRBORNE CONCS SHOULD BE KEPT TO LOWEST LEVELS POSS. IF VAP, MIST OR DUST IS GENERATED & OCCUP EXPOS LIMIT OF PROD, OR ANY COMPONENT OF PROD IS EXCEEDED, USE APPROP NIOSH APPRVD AIR PURIFYING OR AIR S UPPLIED RESP AFTER DETERMINING THE AIRBORNE CONC OF THE CONTAMINANT. NIOSH APPRVD AIR SUPPLIED RESPS SHOULD ALWAYS BE WORN (OTHER INFO)

Ventilation: ADEQUATE TO MEET COMPONENT OCCUPATIONAL EXPOSURE LIMITS (SEE INGREDIENT SECTION).

Pr

otective Gloves: IMPERVIOUS GLOVES.

Eve Protection: ANSI APPROVED CHEMICAL WORKERS GOGGLES.

Other Protective Equipment:EYE WASH & DELUGE SHOWER MEETING ANSI DESIGN CRITERIA. WORKERS SHOULD WASH EXPOSED SKIN SEVERAL TIMES DAILY W/SOAP AND WATER. SOILED WORK CLOTHING SHOULD BE LAUNDERED OR DRY-CLEANED.

Supplemental Safety and Health

EFTS OF OVEREXP: DIARR & PULM EDEMA. AT CONCS ABOVE 300 PPM, RESP PARALYSIS, CAUSING UNCON & DEATH CAN OCCUR. FIRST AID PROC: MORE EFFECTIVE THAN

NORMAL LAUNDERING. INFORM INDIVIDUALS RESPONSIBLE FOR CLEANING OF POTENTIAL HAZS ASSOC W/HNDLG CONTAM CLTHG.

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

Boiling Pt:B.P. Text:NOT DETERMINED

Vapor Pres:NOT DETERMINED Vapor Density:NOT DETERM Spec Gravity:0.8833-0.9402 Viscosity:68-3200 CST @ 40C

Solubility in Water: NOT DETERMINED

Appearance and Odor:RED LIQUID TO OPAQUE LIQUID WITH GREEN BLOOM; ODOR NOT DETERMINED.

=========== Stability and Reactivity Da ta =========

Stability Indicator/Materials to Avoid:YES

THIS MATERIAL REACTS VIOLENTLY WITH STRONG OXIDIZERS.

Stability Condition to Avoid:UNDER EXTREME TEMPERATURES OR EXTENDED STORAGE PERIODS, HYDROGEN SULFIDE GAS MAY ACCUMULATE IN THE HEAD-SPACE OF CONTAINER.

Hazardous Decomposition Products:TOXIC LEVELS OF CARBON MONOXIDE, CARBON DIOXIDE, IRRITATING ALDEHYDES AND KETONES, AND COMBUSTION PRODUCT OR COMPOUNDS OF SULFUR (MAY INCLUDE HYDROGEN SULFIDE).

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

Toxicological Information: ANIMAL TOXICITY DATA: MEDIAN LETHAL DOSE - ORAL: LD50 SIMILAR PRODUCT >5 G/KG (RAT) PRACTICALLY NON-TOXIC. INHALATION: NOT DETERMINED. DERMAL: LD50 SIMILAR PRODUCT >3 G/KG (RABBIT) PRACTICALLY NON-TOX IC. IRRITATION INDEX, ESTIMATION OF IRRITATION (SPECIES). SKIN: (DRAIZE) SIMILAR PRODUCT 1000 MG/L (RAINBOW TROUT) PRACTICALLY NON-TOXIC. EC50-48 HR SIMILAR PROD >1000 MG/L (DAPHNIA MAGNA) PRACTIC

ALLY NON-TOXIC. EC50-96 HR

SIMILAR PROD 25 MG/L S ELENASTRUM (CELL DENS.) SLIGHTLY TOXIC. LC50-96 HR SIMILAR PROD >1000 MG/L MYSID SHRIMP (MARINE). PRACTICALLY NON-TOXIC. LC50-96 HR SIMILAR PROD >1000 MG/L SHEEPSHEAD MINNOW (MARINE) PRACTICALLY NON-T OXIC. MOBILITY: NOT DETERMINED. PERSISTENCE & BIODEGRADABILITY: THIS PROD IS ESTIMATED TO HAVE SLOW (