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## EQUILON ENTERPRISES LLC -- 01981 MARFAK HEAVY DUTY 2 -- 9150-00-895-0420

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

Product ID:01981 MARFAK HEAVY DUTY 2

MSDS Date:01/04/1999

FSC:9150

NIIN:00-895-0420

Status Code:A

MSDS Number: CJMJP === 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;800-424-9300(CHEMTREC) Resp. Party Other MSDS Num.:1981 Chemtrec Ind/Phone:(800)424-9300

CAGE:1J6U8

=== Contractor Identification ===

Company Name: EQUILON ENTERPRISES LLC AVIATION FUELS DIV

Address:910 LOUISIANA ST RM 2556

Box:City:HOUSTON

State:TX ZIP:77002 Country:US

Phone:713-241-4601

CAGE:1J6U8

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

Ingred Name:SOLVENT DEASPHALTED RESIDUAL OIL (PETROLEUM); (SOLVENT DEASPHALTED RESIDUAL PETROLEUM OILS)

CAS:64741-95

-3

Minumum % Wt:50. Maxumum % Wt:64.99

Ingred Name: HYDROTREATED LIGHT NAPHTHENIC DISTILLATE (PETROLEUM); (HYDROTREATED LIGHT NAPHTHENIC PETROLEUM DISTILLATES)

CAS:64742-53-6 RTECS #:PY8036000

Minumum % Wt:20.

Maxumum % Wt:34.99

Ingred Name: TALLOW SODIUM SALT; (SODIUM TALLOWATE)

CAS:8052-48-0 Minumum % Wt:10. Maxumum % Wt:19.99

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

LD50 LC50 Mixture:LD50 (ORAL, RAT):>5.00 G/KG Routes of Entry: Inhalation:YES Skin:YES Inges

tion:NO

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

Health Hazards Acute and Chronic: ACUTE: MAY CAUSE IRRITATION,

EXPERIENCED AS MILD DISCOMFORT AND SEEN AS SLIGHT EXCESS REDNESS OF THE EYE. SKIN: BRIEF CONTACT MAY CAUSE SLIGHT IRRITATION. PROLONGED CONTACT, AS WITH CLOTHING WETTED WI TH MATERIAL, MAY CAUSE MORE SEVERE IRRITATION AND DISCOMFORT, SEEN AS LOCAL REDNESS AND SWELLING. OTHER THAN POTENTIAL SKIN IRRITATION EFFECTS NOTED ABOVE, ACUTE (SHORT TERM) ADVERS

- E EFFECTS ARE NOT E XPECTED FROM BRIEF
  SKIN CONTACT; SEE OTHER EFFECTS, BELOW, AND SECTION 11 FOR
  INFORMATION REGARDING POTENTIAL LONG TERM EFFECTS. INHALATION:
  PRODUCT NOT VOLATILE AT AMBIENT TEMPERATURES. VAPORS OR MIS T IN
  HIGH (EFTS OF OVEREXP)
- Effects of Overexposure:HLTH HAZ: CONCENTRATIONS, AS GENERATED FROM SPRAYING/HEATING IN AN ENCLOSED SPACE, MAY CAUSE MINIMAL IRRIT. INGEST: IF MORE THAN SEVERAL MOUTHFULS ARE SWALLOWED, ABDOMINAL DISCOMFORT, NAUSEA, & DIAR
- RH EA MAY OCCUR. SENSITIZATION

PROPERTIES:UNKNOWN. CHRONIC: NO ADVERSE EFFECTS HAVE BEEN DOCUMENTED IN HUMANS AS A RESULT OF CHRONIC EXPOSURE. SECTION 11 MAY CONTAIN APPLICABLE ANIMAL DATA. OTHER REMARKS: MATL FROM HIGH PRESS EQUIP, PINHOLE LEAKS/HIGH PRESS LINE FAILURE CAN PENETRATE SKIN &, IF NOT PROPERLY TREATED, CAN CAUSE SEVERE INJURY, INCLUDING DISFIGUREMENT, LOSS OF FUNCTION/ EVEN REQUIRE (SUP DAT)

Medical Cond Aggravated by Exposure:BECAUSE OF ITS DEFATTING P

ROPERTIES, PROLONGED AND REPEATED SKIN CONTACT MAY AGGRAVATE AN EXISTING DERMATITIS (SKIN CONDITION).

First Aid:EYES: IMMED FLUSH W/PLENTY OF H\*20 FOR AT LEAST 15 MIN. HOLD EYELIDS APART WHILE FLUSHING TO RINSE ENTIRE SURFACE OF EYE & LIDS W/H\*2O. GET MED ATTN. SKIN: WASH W/PLENTY OF SOAP & H\*2O FOR SEV MIN. GE T MED ATTN IF SKIN IRRIT DEVELOPS/PERSISTS. INGEST: IF MORE THAN SEV MOUTHFULS OF THIS MATL ARE

SWALLOWED, GIVE TWO GLASSES OF

H\*20 (16 OZ). GET MED ATTN. INHAL: IF IRRIT, HDCH/DROW OCCURS, REMOVE TO FRESH AIR. OTHER INSTRUCTIONS: HIGH PRESS INJECTION OF MATL CAN CAUSE SEV INJURY. FAILURE TO DEBRRIDE WOUND OF ALL RESIDUAL MATL CAN RESULT IN DISFIGUREMENT, LOSS OF FUNCTION/MAY REQUIRE AMPUTATION OF AFFECTED AREA. (SUPDAT)

 Fire	Fighting	Measures	
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Extinguishing Media:USE WATER SPRAY, DRY CHEMICAL, FOAM, OR CARBON DIOXIDE

TO EXTINGUISH FLAMES. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS. WATER OR FOAM MAY CAUSE FROTHING.

Fire Fighting Procedures:USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT. OTHER THAN NORMAL PROTECTIVE FIRE-FIGHTING EQUIPMENT, NO SPECIAL EQUIPMENT OR PROCEDURES REQUIRED.

Unusual Fire/Explosion Hazard:NONE.

======= Accio	lental Release Measures	============
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Spill Release Procedures: CONTAIN SPILL IF POSSIBLE, CONTAIN WITH ABSORBENT MATERIALS SUCH AS C

LAY OR SOIL, AND SHOVEL UP. AVOID SKIN
AND EYE CONTACT. IF MORE THAN 1,333,333 POUNDS OF PRODUCT IS
SPILLED, THEN REPORT SPILL ACCO RDING TO SARA 304 AND/OR CERCLA 102
(A)REQUIREMENTS, UNLESS PRODUCT QUALIFIES FOR THE PETROLEUM
EXEMPTION (CERCLA SECTION 101(14)).

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

Handling and Storage Precautions:HANDLING: MINIMUM FEASIBLE HANDLING
TEMEPRATURES SHOULD BE MINTAINED. STORAGE: PERIODS OF EXPOSURE TO
HIGH TE

MPERATURES SHOULD BE MINIMIZED. WATER CONTAMINATION SHOULD BE AVOIDED.

Other Precautions:CAUTION: MISUSE OF EMPTY CNTNRS CAN BE HAZARDOUS. EMPTY CNTNRS CAN BE HAZARDOUS IF USED TO STORE TOXIC FLAM/REACTIVE MATERIALS. CUTTING/WELDING OF EMPTY CONTAINERS MIGHT CAUSE FIRE, EXPLOSION OR TOXIC FUMES FROM RESIDUES. DO NOT PRESSURIZEOR EXPOSE TO OPEN FLAME OR HEAT. KEEP CONTAINER CLOSED AND DR UM BUNGS IN PLACE.

==========	Exposure Controls/Personal Protection	=========
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Respiratory Protection: AIRBORNE CONCS SHOULD BE KEPT TO LOWEST LEVELS POSSIBLE. IF VAP, MIST/DUST IS GENERATED & OCCUPATIONAL EXPOS LIMIT OF PROD/ANY COMPONENT OF PROD, IS EXCEEDED, USE APPROPRIATE NIOSH APPROVED AIR PURIFY ING/AIR SUPPLIED RESP AFTER DETERM AIRBORNE CONC OF CONTAM. AIR SUPPLIED RESP SHOULD ALWAYS BE WORN WHEN AIRBORNE CONC OF CONTAM/OXYGEN CONTENT IS UNKNOWN.

Ventilation: ADEQ TO MEET COMPONENT OCCUP EXPOS LIMITS (SEE SECTION 2). EXPOS LIMIT FOR TOTAL

PROD: NONE ESTABLISHED FOR PROD: REFER TO SECTION 2 FOR COMPONENT EXPOS LIMITS.

Protective Gloves: IMPERVIOUS GLOVES.

Eye Protection: ANSI APPROVED CHEMICAL WORKERS GOGGLES.

Other Protective Equipment: ANSI APPROVED EYE WASH AND DELUGE SHOWER.

Work Hygienic Practices:WORKERS SHOULD WASH EXPOSED SKIN SEVERAL TIMES DAILY WITH SOAP AND WATER. SOILED WORK CLOTHING SHOULD BE LAUNDERED OR DRY-CLEANED.

Supplemental Safety and Health

EFTS OF OVEREXP: AMPUTATION OF AFFECTED AREA. TO PVNT SUCH SERIOUS

INJURY, IMMEDIATE MED ATTN SHOULD BE SOUGHT EVEN IF INJECTION INJURY APPEARS TO BE MINOR. FIRST AID PROC: REMOVE & DRY-CLEAN/LAUNDER CLTHG SOAKED/SOILED W/THIS MATL BEFORE REUSE. DRY CLEANING OF CONTAMD CLTHG MAY BE MORE EFFECTIVE (OTHER INFO)

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

Vapor Pres:< 0.1 MMHG Viscosity:290 CST @ 40.0C Solubility in Water:0.1-0

Appearance and Odor:BROWN SEMI-SOLID; SLIGHT ODOR.

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

Stability Indicator/Materials to Avoid:YES

THIS MATERIAL REACTS VIOLENTLY WITH: STRONG OXIDIZERS.

Hazardous Decomposition Products:PRODUCTS EVOLVED WHEN SUBJECTED TO HEAT OR COMBUSTION: TOXIC LEVELS OF CARBON MONOXIDE, CARBON DIOXIDE, IRRITATING ALDEHYDES AND KETONES, AND COMBUSTION PRODUCTS OF COMPOUNDS OF SODIUM.

Conditions to Avoid Polymerization: DO NOT OCCUR.

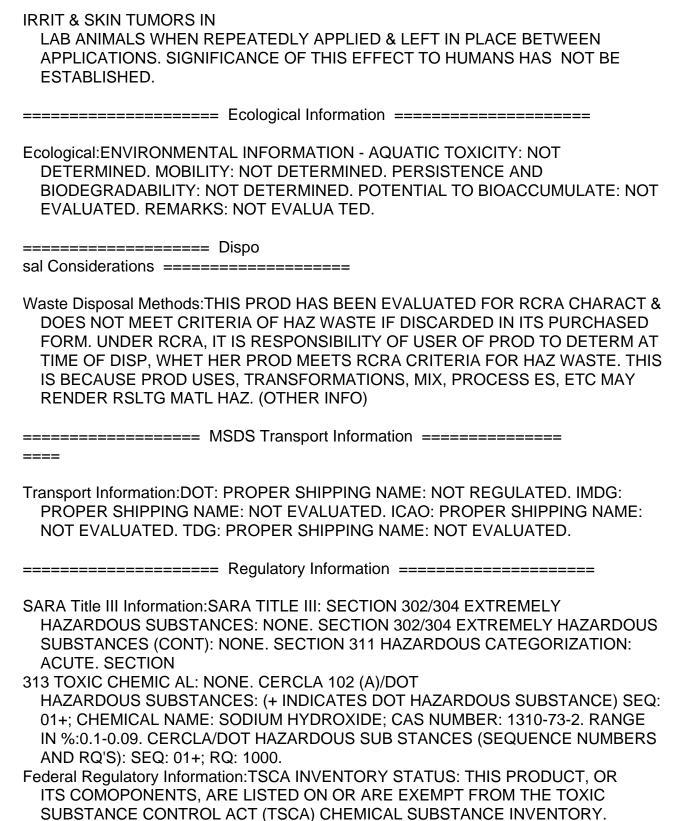
======== Toxicological Information ===========

Toxicological Inf

ormation:(ANIMAL TOXICITY DATA): MEDIAN LETHAL DOSE

ORAL: LD50 SIMILAR PROD > 5.00 G/KG (RAT) PRACTICALLY NON-TOX. INHAL: NOT DETERMINED. DERMAL: LD50 SIMILAR PROD > 2.00 G/KG (RABBIT) PRACTICALLY NON-TOX. IRR IT INDEX, ESTIMATION OF IRRIT (SPECIES). SKIN: (DRAIZE) SIMILAR PRODUCT 2.87/8.0 (RABBIT) SLIGHTLY IRRITATING. EYES: (DRAIZE) SIMILAR PRODUCT 15.60/110 (RABBIT) SLIGHTLY IRRITATING. SENSITIZATION: N/K. OTHER: SOME LOW

VISCOSITY NAPHTHENIC OILS HAVE CAUSED SKIN



State Regul

atory Information: CALIFORNIA PROPOSITION 65: FOLLOWING
DETECTABLE COMPONENTS OF THIS PROUCT ARE SUBSTANCES/BELONG TO
CLASSES OF SUBSTANCES, KNOWN TO STATE OF CALIFORNIA TO CAUSE CANCER
AND/OR REPRODUCTIVE TOXICITY: NON E. WHMIS CLASSIFICATION: NOT
CONTROLLED. CANADA INVENTORY STATUS: THIS PRODUCT, OR ITS
COMPONENTS, ARE LISTED ON OR ARE EXEMPT FROM THE CANADIAN DOMESTIC
SUBSTANCE LIST (DSL). ENINECS INVENTORY STATUS: NOT DETERMINED.

ODUCT/ITS COMPONENTS. ARE LISTED

AUSTRALIA INVENTORY STATUS: THIS PR

ON/ARE EXEMPT F ORM THE AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS). JAPAN INVENTORY STATUS: NOT DETERMINED.

============ Other Information ==============================

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