

EQUILON ENTERPRISES LLC -- 01893 TDH OIL -- 9150-01-177-9438

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

Product ID:01893 TDH OIL

MSDS Date:02/24/1999

FSC:9150

NIIN:01-177-9438

Status Code:A

MSDS Number: CKWKY

=== Responsible Party ===

Company Name:EQUILON ENTERPRISES LLC

Address:PRODUCT STEWARDSHIP

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.:01893ET

Chemtrec Ind/Phone:(800)424-9300

CAGE:TO225

=== Contractor Identification ===

Company Name:CHEMICAL SPECIALISTS AND DEVELOPMENT

Address:2275 TUCKER INDUSTRIAL RD

Box:City:TUCKER

State:GA

ZIP:30084

Country:US

Phone:770-938-4513/FAX 770-938-3966

Contract Num:SP0450-01-M-C569

CAGE:1MDA6

Company Name:EQUILON ENTERPRISES LLC

Address:PRODUCT STEWARDSHIP

Box:674414

City:HOUSTON

State:TX

ZIP:77267-4414

Country:US

Phone:877-276-7285

CAGE:TO225

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

Ingred Name:HYDROTREATED HEAVY PARAFFINIC PETROLEUM DISTILLATES
CAS:64742-54-7
RTECS #:PY8035500
Minumum % Wt:80.
Maxumum % Wt:94.99
OSHA PEL:5 MG/M3 MINERAL OIL
ACGIH TLV:5 MG/M3 MINERAL OIL
ACGIH STEL:10MG/M3 MINERAL OIL

Ingred Name:ADDITIVES
Minumum % Wt:1.
Maxumum % Wt:2.99

Ingred Name:ZINC ALKYL DITHIOPHOSPAHTE
CAS:68649-42-3
Minumum % Wt:1.
Maxumum % Wt:2.99

Ingred Name:HYDROTREATED LIGHT NAPHTHENIC PETROLEUM DISTILLATES
CAS:647
42-53-6
RTECS #:PY8036000
Minumum % Wt:1.
Maxumum % Wt:2.99
OSHA PEL:5 MG/M3 MINERAL OIL
ACGIH TLV:5 MG/M3 MINERAL OIL
ACGIH STEL:10MG/M3 MINERAL OIL

Ingred Name:POLYMETHAXRYLATE
CAS:50867-55-5
Minumum % Wt:1.
Maxumum % Wt:2.99

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

LD50 LC50 Mixture:ORAL LD50 RAT: >5.00 G/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: EYE-MAY

CAUSE MINIMAL

IRRITATION. SKIN-BRIEF CONTACT MAY CAUSE SLIGHT IRRITATION. PROLONGED CONTACT, AS WITH CLOTHING WETTED WITH MATERIAL, MAY CAUSE MORE SEVERE IRRITATION & DISCOMFORT. INHALATION-VAPOR OR MIST, IN EXCESS OF PERMISSIBLE CONCENTRATIONS, OR IN UNUSUALLY HIGH CONCENTRATIONS GENERATED FROM SPRAYING, HEATING THE MATERIAL OR AS FROM EXPOSURE IN POORLY VENTILATED AREAS OR CONDENSED SPACES, MAY CAUSE IRRITATION OF NOSE & THROAT. CHRONIC: NO ADVERSE EFFECTS HAVE

BEEN DOCUMENTED IN HUMANS AS A RESULT OF CHRONIC EXPOSURE. TOXICOLOGICAL SECTION MAY CONTAIN APPLICABLE ANIMAL DATA. SENSITIZATION PROPERTIES: UNKNOWN.

Explanation of Carcinogenicity:PRODUCT AND/OR COMPONENT(S) CARCINOGENIC ACCORDING TO: OSHA, IARC, NTP OTHER, NONE=X.

Effects of Overexposure:EYE: TEMPORARY DISCOMFORT. SKIN: DISCOMFORT SEEN AS LOCAL REDNESS AND SWELLING. INHALATION: HEADACHE, NAUSEA, AND DROWSINESS. INGESTION: IF MORE THAN SEVERAL MOUTHFULS ARE SWALLOWED

, ABDOMINAL DISCOMFORT, NAUSEA, DIARRHEA MAY OCCUR.

Medical Cond Aggravated by Exposure:BECAUSE OF ITS IRRITATING PROPERTIES, REPEATED SKIN CONTACT MAY AGGRAVATE AN EXISTING DERMATITIS(SKIN CONDITION).

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

First Aid:EYES-FLUSH WITH PLENTY OF WATER FOR SEVERAL MINS. GET MEDICAL ATTENTION IF EYE IRRITATION PERSISTS. SKIN-WASH SKIN WITH PLENTY OF SOAP & WATER FOR SEVERAL MINS. GET MEDICAL ATTENTION IF SKIN IRRITATION DEVELOPS OR PERSISTS.

INGESTION-IF MORE THAN SEVERAL MOUTHFULS OF THIS MATERIAL ARE SWALLOWED, GIVE TWO GLASSES OF WATER (16 OZ). GET MEDICAL ATTENTION. INHALATION-IF IRRITATION, HEADACHE, NAUSEA, OR DROWSINESS OCCURS, REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF BREATHING BECOMES DIFFICULT OR RESPIRATORY IRRITATION PERSISTS. "FOR OTHER INSTRUCTIONS SEE OTHER INFORMATION SECTION"

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

Flash Point Method:

COC

Flash Point:=198.9C, 390.F

Autoignition Temp:Autoignition Temp Text:N/D

Lower Limits:N/D

Upper Limits:N/D

Extinguishing Media:USE WATER SPRAY, DRY CHEMICAL, FOAM, CARBON DIOXIDE TO EXTINGUISH FLAMES. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS. WATER OR FOAM MAY CAUSE FROTHING.

Fire Fighting Procedures:WEAR FULL FIRE PROTECTIVE CLOTHING AND POSITIVE BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:HYDROGEN SULFIDE (H2S) MAY BE RELEASED IF OVERHEATED.

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Accidental Release Measures =====

Spill Release Procedures: VENTILATE AREA. AVOID BREATHING VAPOR. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT, INCLUDING APPROPRIATE RESPIRATORY PROTECTION. CONTAIN SPILL IF POSSIBLE. WIPE UP OR ABSORB ON SUITABLE MATERIAL AND SHOVEL UP. PREVENT ENTRY INTO SEWER AND WATERWAY. AVOID CONTACT WITH SKIN, EYES OR CLOTHING.

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

Handling and Storage Precautions: HANDLING:

MINIMUM HANDLING

TEMPERATURES SHOULD BE MAINTAINED. STORAGE: PERIODS OF EXPOSURE TO HIGH TEMPERATURES SHOULD BE MINIMIZED. WATER CONTAMINATION SHOULD BE AVOIDED.

Other Precautions: DISPOSAL CONTINUED: THIS IS BECAUSE PRODUCT USES TRANSFORMATIONS, MIXTURES, PROCESSES, ETC MAY RENDER THE RESULTING MATERIAL HAZARDOUS.

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

Respiratory Protection: IF VAPOR, MIST OR DUST IS GENERATED &

OCCUPATIONAL EXPOSURE LIMIT,

OR ANY COMPONENT, IS EXCEEDED, USE

APPROPRIATE NIOSH/MSHA APPROVED AIR PURIFYING/AIR SUPPLIED

RESPIRATOR AFTER DETERMINING THE AIRBORNE CONCENTRATION OF THE

CONTAMINANT. AIR SUPPLIED RESPIRATORS SHOULD ALWAYS BE WORN

WHEN AIRBORNE CONCENTRATION OF THE CONTAMINANT OR OXYGEN CONTENT IS UNKNOWN.

Ventilation: ADEQUATE TO MEET COMPONENT OCCUPATIONAL EXPOSURE LIMITS.

Protective Gloves: "SEE WORK HYGIENIC PRACTICES"

Eye Protection: SAFETY GLASSES, CHEMICAL TYPE GOGGLES, FACE SHIELD

RECOMMENDED.

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

RESPIRATORY: AIRBORNE CONCENTRATIONS SHOULD BE KEPT TO LOWEST LEVELS POSSIBLE. EXPOSURE LIMIT FOR TOTAL PRODUCT: NONE ESTABLISHED FOR PRODUCT, REFER TO INGREDIENT SECTION FOR COMPONENT EXPOSURE LIMITS

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

HCC:V6

Boiling Pt:B.P. Text:N/D
Vapor Pres:N/D
Vapor Density:N/D
Spec Gravity:.8927
Viscosity:38.9CST @40C
Solubility in Water:N/D
Appearance and Odor:AMBER LIQUID; PETROLEUM OIL ODOR.

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

Stability Indicator/Materials to Avoid:YES
THIS PRODUCT REACTS VIOLENTLY WITH: STRONG OXIDIZERS.
Stability Condition to Avoid:UNDER EXTREME TEMPERATURES OR EXTENDED STORAGE PERIODS, HYDROGEN SULFIDE (H₂S) 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 PRODUCTS OF COMPOUNDS OF ZINC, PHOSPHORUS, SULFUR(MAY INCLUDE HYDROGEN SULFIDE).
Conditions to Avoid Polymerization:DO NOT OCCUR.

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

Toxicological Information:MEDIAN LETHAL DOSE. ORAL: LD₅₀>5.00 G/KG(RAT) PRACTICALLY NON-TOXIC. INHALATION: NOT DETERMINED. DERMAL: LD₅₀>3.00 G/KG (RABBIT) PRACTICALLY NON-TOXIC. SKIN: (DRAIZE) 0.67/8.0 (RABBIT) SLIGHTLY IRRITATING. SENSITIZATION: NOT DETERMINED. OTHER:SOME LOW VISCOSITY NAPHTHENIC OILS HAVE CAUSED SKIN IRRITATION & SKIN TUMORS IN LABORATORY ANIMALS WHEN REPEATEDLY APPLIED & LEFT IN PLACE BETWEEN APPLICATIONS. THE SIGNIFICANCE OF THIS EFFECT TO HUMANS HAS NOT BEEN ESTABLISHED.

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

Ecological:LC₅₀-96HR AQUATIC TOXICITY RATING IS =350 MG/LITER (RAINBOW TROUT) PRACTICALLY NON-TOXIC. EC₅₀-48HR AQUATIC TOXICITY RATING IS >1000 MG/LITER (DAPHNE MAGNA) PRACTICALLY NON-TOXIC. LC₅₀-96HR AQUATIC TOXICITY RATING IS=180 MG/LITER MYSID SHRIMP (MARINE) PRACTICALLY NON-TOXIC. EC₅₀-96HR AQUATIC TOXICITY RATING IS =3.80 MG/LITER SELENASTRUM (CELL DENS) MODERATELY TOXIC. LC₅₀-96HR AQUATIC TOXICITY RATING IS=1000 MG/LITER SHEEPHEAD MINNOW (MARINE) PRACTICALLY NON-TOXIC. MOBILITY: NOT DETERMINED. PERSISTENCE

NCE &

BIODEGRADABILITY: THIS PRODUCT IS REPORTED TO HAVE A MODERATE (>30%) RATE OF BIODEGRADATION IN A TEST FOR READY BIODEGRADATION.

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

Waste Disposal Methods: THIS PRODUCT HAS BEEN EVALUATED FOR RCRA CHARACTERISTICS AND DOES NOT MEET THE CRITERIA OF A HAZARDOUS WASTE IF DISCARDED IN ITS PURCHASED FORM. UNDER RCRA, IT IS THE RESPONSIBILITY OF THE USER OF THE PRODUCT TO DETERMINE AT THE TIME OF DISPOSAL, WHETHER THE PRODUCT MEETS RCRA CRITERIA FOR HAZARDOUS WASTE.

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

Transport Information: TRANSPORTATION. DOT: PROPER SHIPPING NAME: NOT REGULATED. IMDG: PROPER SHIPPING NAME: NOT REGULATED. ICAO: PROPER SHIPPING NAME: NOT REGULATED. TDG: PROPER SHIPPING NAME: NOT REGULATED.

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

SARA Title III Information: SECTION 302/304 EXTREMELY HAZARDOUS SUBST

ANCES: NONE. SECTION 311 HAZARDOUS CATEGORIZATION: N/A.

SECTION 313 TOXIC CHEMICAL: ZINC ALKYL DITHIOPHOSPHATE, CAS# 68649-42-3, CONCENTRATION 1.00-2.99.

Federal Regulatory Information: CERCLA 102(A)/DOT HAZARDOUS SUBSTANCES: (+INDICATES DOT HAZARDOUS SUBSTANCES): NONE. CERCLA/DOT HAZARDOUS SUBSTANCES (SEQUENCE NUMBERS & RQ'S): NONE. TSCA INVENTORY STATUS: THIS PRODUCTS, OR ITS COMPONENTS, ARE LISTED ON OR ARE EXEMPT FROM THE TOXIC SUBSTANCE CONTROL ACT (TSCA) CHEMICAL SUB

STANCE INVENTORY. OTHER: NONE. COMPONENT IS HAZARDOUS ACCORDING TO OSHA (1910.1200): ADDITIVES, ZINC ALKYL DITHIOPHOSPHATE, POLYMETHACRYLATE. COMPONENT, BY DEFINITION, IS CONSIDERED HAZARDOUS TO OSHA BECAUSE IT CARRIES THE PERMISSIBLE EXPOSURE LIMIT FOR MINERAL OIL MIST: CAS# 64742-54-7, 64742-53-6.

State Regulatory Information: CALIFORNIA PROPOSITION 65: THE FOLLOWING DETECTABLE COMPONENTS OF THIS PRODUCT ARE SUBSTANCES, OR BELONG TO CLASSES OF SUBSTANCES, KNOWN TO TH

E STATE OF CALIFORNIA TO CAUSE
CANCER AND/OR REPORODUCTIVE TOXICITY: NONE.

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

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assume responsibility for the suitability of this information to their
particular situation.