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EQUILON ENTERPRISES LLC -- 07994 HAVOLINE DEX-COOL EXTENDED LIFE

ANTIFREEZE/COOLANT -- 6850-01-433-8823

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

Product ID:07994 HAVOLINE DEX-COOL EXTENDED LIFE ANTIFREEZE/COOLANT

MSDS Date:11/07/1999

FSC:6850

NIIN:01-433-8823 MSDS Number: CKLJB === Responsible Party ===

Company Name: EQUILON ENTERPRISES LLC

Address:PRODUCT STEWARDSHIP

Box:674414 City:HOUSTON

State:TX

ZΙ

P:77267-4414 Country:US

Info Phone Num:877-276-7285

Emergency Phone Num:877-276-7285 Resp. Party Other MSDS Num:07994ET Chemtrec Ind/Phone:(800)424-9300

CAGE:3N254

=== 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-D839

CAGE:097K0

Company Name: CHEMICAL SPECIALISTS AND DEVELOPMENT

Address:2275 TUCKER INDUSTRIAL RD

Box:City:TUCKER

State:GA ZIP:30084 Country:US Phone:77 0-938-4513/FAX 770-938-3966 Contract Num:SP0450-00-M-SB47

CAGE:1MDA6

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:SP0450-00-M-SC33

CAGE:1MDA6

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:SP0450-00-M-SD95

CAGE:1MDA6

Company Name: EQUI

LON ENTERPRISES LLC PRODUCT STEWARDSHIP

Address:1111 BAGBY RD RM 4325D

Box:674414 City:HOUSTON

State:TX

ZIP:77267-4414 Country:US

Phone:877-276-7285

CAGE:3N254

Company Name: MORNING STAR INDUSTRIES INC

Address:665 BAYBERRY LN

Box:1266

City: JENSEN BEACH

State:FL ZIP:34958 Country:US

Phone:800-440-6050

Contract Num:SP0450-01-M-D719

CAGE:1GDM9

Company Name: TEXACO INC CORPORATE HQ

Address:2000 WESTCHESTER AVE

City:WHITE PLAINS

State:NY ZIP:10604 Country:US

Phone:914-253-4000

CAGE:59595

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

Ingred Name:1,2-ETHANEDIOL

CAS:107-21-1

RTECS #:KW2975000 Minumum % Wt:80.

Maxumum % Wt:94.99 OSHA PEL:50 PPM CEILING

ACGIH TLV:39.4 PPM CEILING

ACGIH STEL:C127 MG/M3;C50 PPM

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name: POTASSIUM 2 ETHYLHEXANOATE

CAS:149-57-5

RTECS #:MO7700000 Minumum % Wt:3. Maxumum % Wt:9.99

Ingred Name: POTASSIUM SEBACATE

< Wt:1.

OSHA PEL:2 MG/M3 CEILING ACGIH TLV:2 MG/M3 CEILING

====== Hazards Ide ntification =========

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 IRRITATION.

SKIN: BRIEF CONTACT MAY CAUSE SLIGHT IRRITATION. PROLONGED CONTACT MAY CAUSE MORE SEVERE IRRITATION. INHALATION: VAPORS AND MISTS MAY CAUSE IRRITATION OF NOSE AND TH ROAT. INGESTION: TOXIC WHEN SWALLOWED. A LETHAL DOSE FOR AN ADULT IS 1-2 ML PER KILOGRAM.

CHRONIC: RE

PEATED INGESTION MAY CAUSE KIDNEY DAMAGE. ASPIRATION MAY OCCUR DURING SWALLOWING OR VOMITING, RESUL TING IN LUNG DAMAGE.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:EYES: IRRITATION, MILD DISCOMFORT, SLIGHT REDNESS OF THE EYE. SKIN: IRRITATION, REDNESS, SWELLING. INHALATION: IRRITATION OF NOSE AND THROAT, HEADACHE, NAUSEA, DROWSINESS. INGESTION: HEADACHE, WEAKNES S, CONFUSION, DIZZINESS, STAGGERING, SLURRED SPEECH, LOSS OF COORDINATION, FAINTNESS, NAUSEA,

VOMITING, INCREASED HEART RATE, DECREASED BLOOD PRESSURE, DIFFICULTY BREATHING AND SEEING, PULMONARY EDEMA, UNCONSCIOUSNESS, CONVULSIONS, COLLAPSE, COMA, DECREASED URINE OUTPUT, KIDNEY FAILURE. SEVERE POISONING MAY CAUSE DEATH.

Medical Cond Aggravated by Exposure:REPEATED OVEREXPOSURE MAY AGGRAVATE EXISTING KIDNEY DISEASE. BECAUSE OF ITS IRRITATING PROPERTIES, REPEATED SKIN CONTACT MAY AGGRAVATE AN EXISTING DERMATITIS.

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

First Aid:EYES: IMMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. HOLD LIDS APART. GET MEDICAL ATTENTION. SKIN: WASH WITH PLENTY OF SOAP AND WATER. REMOVE AND CLEAN CONTAMINATED CLOTHING. DESTROY NONRESISTANT FOOTWEAR. GET MEDICAL ATTENTION IF IRRITATION PERISTS. INGESTION: IF PERSON IS CONSCIOUS AND CAN SWALLOW, IMMEDIATELY GIVE 2 GLASSES WATER BUT DO NOT INDUCE VOMITING. GET IMMEDIATE MEDI CAL ATTENTION. INHALATION: IF HEADACHE, NAUSEA OR

DROWSINESS OCCURS, REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF BREATHING BECOMES DIFFICULT OR RESPIRATORY IRRITATION PERSISTS.

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

Flash Point Method: PMCC Flash Point:=126.7C, 260.F

Autoignition Temp: Autoignition Temp Text: N/D

Lower Limits:N/D Upper Limits:N/D

Extinguishing Media:WATER SPRAY, DRY CHEMICAL, FOAM, OR CARBON DIOXIDE.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND POSITIVE PRESSURE BREATHIN

G APPARATUS. APPROACH FIRE FROM UPWIND TO AVOID VAPORS AND HAZARDOUS DECOMPOSITION PRODUCTS. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS. WATER OR FOAM MAY CAUSE FROTHING. Unusual Fire/Explosion Hazard:NONE.

	Accidental Release Measures	
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Spill Release Procedures: VENTILATE AREA. AVOID BREATHING VAPOR. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT, INCLUDING RESPIRATORY PROTECTION. CONTAIN SPILL IF POSSIBLE. WIPE UP OR ABSORB ON SUI

TABLE MATERIAL AND SHOVEL UP . PREVENT ENTRY INTO SEWERS AND WATERWAYS. AVOID CONTACT WITH SKIN EYES OR CLOTHING. IF MORE THAN 5440 LBS IS SPILLED, REPORT SPILL IN ACCORDANCE WITH SARA 304 AND/OR CERCLA 102(A).

Neutralizing Agent:NO DATA PROVIDED BY MANUFACTURER.

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

Handling and Storage Precautions:MINIMUM FEASIBLE HANDLING TEMPERATURES SHOULD BE MAINTAINED. WATER CONTAMINATION SHOULD BE AVOIDED. STORAGE: PERI

ODS OF EXPOSURE TO HIGH TEMPERATURES SHOULD BE MINIMIZED.

Other Precautions:ACUTE OR CHRONIC ORAL CONSUMPTION OF PRODUCTS
CONTAINING ETHYLENE GLYCOL CAN PRODUCE SIGNIFICANT ADVERSE EFFECTS,
INCLUDING DEATH, IN HUMANS AND ANIMALS. KEEP OUT OF REACH OF
CHILDREN AND PETS. SUCH P RODUCTS SHOULD NOT BE USED IN POTABLE
(DRINKING) WATER SYSTEMS OR OTHER SYSTEMS WHERE WATER CONTAMIN
ATION IS POSSIBLE.

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

Respirato

ry Protection:IF VAPOR/MIST/DUST GENERATED AND OCCUPATIONAL EXPOSURE LIMIT IS EXCEEDED USE APPROPRIATE NIOSH/MSHA APPROVED AIR PURIFYING OR AIR SUPPLIED RESPIRATOR. AIR SUPPLIED RESPIRATOR SHOULD ALWAYS BE WORN WH EN AIRBORNE CONCENTRATION OF CONTAMINANT OR OXYGEN CONTENT IS UNKNOWN.

Ventilation: ADEQUATE TO MEET COMPONENT OCCUPATIONAL EXPOSURE LIMITS. EXPOSURE LIMIT FOR TOTAL PRODUCT HAS NOT BEEN DETERMINED.

Protective Gloves: CHEMICAL RESISTANT GLOVES.

Eve Protection:SAFETY

GLASSES, CHEMICAL TYPE GOGGLES, FACE SHIELD.

Other Protective Equipment: COVERALLS OR LAB COATS; BOOTS RESISTANT TO CHEMICALS AND PETROLEUM DISTILLATES.

Work Hygienic Practices: LAUNDER OR DRY CLEAN WHEN SOILED.

Supplemental Safety and Health

PRODUCT CODE & NAME: 07994 HAVOLINE DEX-COOL EXTENDED LIFE ANTIFREEZE/COOLANT. CHEMICAL NAME AND/OR FAMILY OR DESCRIPTION: ANTIFREEZE.

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

HCC:V5

Boiling Pt:=108.9C, 228.F

Vapor Pr

es:N/DETERMINED
Vapor Density:2.1(AIR=1)
Spec Gravity:1.13
pH:-99.9
Viscosity:8CST@40C
Solubility in Water:>10
Appearance and Odor:ORANGE LIQUID WITH MILD ODOR
Percent Volatiles by Volume:N/D

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

Stability Indicator/Materials to Avoid:YES NONE SPECIFIED BY MANUFACTURER. Stability Condition to Avoid:NONE.

Hazardous Decomposition Products:TOXIC LEVELS OF CARBON MONOXIDE, CARBON DIOXIDE, IRRITATING ALDEHYDES AND KETONES, AND COMB USTION

PRODUCTS OR COMPOUNDS OF POTASSIUM. Conditions to Avoid Polymerization: DOES NOT OCCUR.

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

Toxicological Information:ORAL: ANIMAL DATA DOES NOT REFLECT HUMAN TOXICITY. INHALATION: NOT DETERMINED. DERMAL: LD50 BELIEVED TO BE >1.00-2.00 G/KG (RABBIT) SLIGHTLY TOXIC. IRRITATION INDEX: SKIN: DRAIZE, BELIEVED TO BE 0.5 0-3.00/8.0 (RABBIT) SLIGHTLY IRRITATING. EYES: DRAIZE, BELIEVED TO BE 15.00-25.00/100 (RABBITZ)

SLIGHTLY IRRITATING. SENSITIZATION: NOT DETERMINED. OTHER: ORAL ADMINISTRATION OF ETHYLENE GLYCOL TO PRE GNANT EXPERMIMENTAL ANIMALS HAS BEEN SHOWN TO CAUSE BIRTH DEFECTS IN OFFSPRING. CONTINUOUS INGESTION OF 1%-2% ETHYLENE GLYCOL FOR 2 YEARS PRODUCED LIVER & KIDNEY DAMAGE.

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

Ecological:AQUATIC TOXICITY: NOT DETERMINED. MOBILITY: NOT DETERMINED. PERSISTENCE & BIODEGRADABILITY: THIS PRODUCT IS ESTIM ATED TO HAVE A

MODERATE (>=30%) RATE OF BIODEGRADATION IN A TEST FOR READY BIODEGRADATI ON. POTENTIAL FOR BIOACCUMULATION: THIS PRODUCT IS ESTIMATED TO HAVE A LOW POTENTIAL TO BIOCONCENTRATE. NOTE: TO PREVENT CONTAMINATION OF DRINKING WATER SUPPLIES & POISONING OF CHILDREN, AQUATIC LIFE, WILDLIFE, FARM & DOMESTIC ANIMALS, ETHYLENE GLYCOL PRODUCTS SUCH AS USED TO ANTIFREEZE SOLUTION SHOULD NEVER BE DISCARDED ONTO THE GROUND, INTO SURFACE WATERS OR INTO STORM SEWER

======= 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 PRODUCT USER'S RESPONSIBILITY TO D ETERMINE AT THE TIME OF DISPOSAL, WHETHER THE PRODUCT MEETS RCRA CRITERIA FOR HAZARDOUS WASTE.
========= MSDS Transport Information ==========
Transport Information :US DOT: NOT REGULATED. IMDG: NOT REGULATED. ICAO: NOT REGULATED.
=========== Regulatory Information ============
SARA Title III Information:SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCE: NONE. SECTION 311 HAZARDOUS CATAGORIZATION: ACUTE, CHRONIC. SECTION 313 TOXIC CHEMICAL: 1,2 ETHANEDIOL, CAS# 107-21-1, 80%-94.99%.
Federal Regulatory Information:CERCLA 102(A) HAZARDOUS SUBSTANCES (ALSO US DOT HAZARDOUS SUBSTANCES): 1,2 ETHANEDIOL, CAS# 107-21-1, 8
0-94.99%, DOT RQ=5000 LBS; POTASSIUM HYDROXIDE, CAS# 1310-58-3, 1-2.99%, US DOT RQ=1000 LBS; SODI UM HYDROXIDE, CAS# 1310-73-2, 0.01-0.09%, US DOT RQ=1000 LBS. TSCA INVENTORY: THIS PRODUCT, OR ITS COMPONENTS, ARE LISTED ON OR ARE EXEMPT FROM THE TOXIC SUBSTANCE CONTROL ACT 9TSCA) CHEMICAL SUBSTAN CE INVENTORY. THIS PRODUCT MAY BE SUBJECT TO TSCA SECTION 12(B); CONTAINS: DIETHYLENE GLYCOL MONOBUT YL ETHER. PRODUCT IS HAZARDOUS ACCORDING TO OSHA (1910.1200). COMPONENTS

ARE HAZARDOUS ACCORDING TO OSHA.

State Regulatory Information: CALIFORNIA PROPOSITION 65: NONE.

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

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