

1FID: 00334682
VER DATE: 1996-12-19

C H E M I S T R I DATE: 10/22/02
MATERIAL SAFETY DATA SHEET TIME: 19:02:52
PAGE: 0001

SECTION 01: CHEMICAL PRODUCT & COMPANY ID

PRODUCT PRIMARY NAME: 16747 HAVOLINE ELECTRA-COOL PREDILUTED 50/50
AF/COOLANT

ALL SYNONYMS : ELECTRA-COOL - ANTI-FREEZE/COOLANT
ELECTRA-COOL PREDILUTED 50/50 AF/COOLANT
ELECTRACOOOL
GM PARTS ELECTRA-COOL
HAVOLINE ELECTRA-COOL PREDILUTED 50/50 AF/COOLANT
12378390
12378391
16747 HAVOLINE ELECTRA-COOL PREDILUTED 50/50 AF/COOLANT
16747 TEXACO ANTIFREEZE/COOLANT ETX 6280K BLEND
27002485

SAFE USE CATEGORY AND DESCRIPTION: 04 -METAL WORKING FLUIDS AND
LUBRICANTS

LAST UPDATED DATE: 1996-12-19

MANUFACTURER'S ID (MID): 000503788
MANUFACTURER'S NAME: TEXACO LUBRICANTS COMPANY
MANUFACTURER'S EMERGENCY PHONE NUMBER/TEXT: US 914-831-3400
MANUFACTURER'S MAILING ADDRESS:
DIV TEXACO REFINING & MARKETING
P.O. BOX 4427
HOUSTON TX 77210-4427
US

CHEMICAL FAMILY NAME: ANTIFREEZE

SECTION 1 - OTHER INFORMATION: EMERGENCY OVERVIEW - APPEARANCE: ORANGE
LIQUID. ODOR: MILD ODOR . WARNING STATEMENT - WARNING! HARMFUL IF
SWALLOWED. MAY CAUSE DIZZINESS AND DROWSINESS. MAY CAUSE EYE
IRRITATION. ASPIRATION HAZARD IF SWALLOWED CAN ENTER LUNGS AND CAUSE
DAMAGE. FOR INDUSTRIAL USE ONLY. CAN CAUSE KIDNEY DAMAGE IF SWALLOWED.
MAY CAUSE LIVER DAMAGE IF SWALLOWED BASED ON ANIMAL DATA. ATTENTION!
CONTAINS ETHYLENE GLYCOL WHICH MAY CAUSE BIRTH DEFECTS BASED ON ANIMAL
DATA. CONTAINS 2-ETHYLHEXANOIC ACID OR ITS SALT WHICH MAY CAUSE ADVERSE
REPRODUCTIVE EFFECTS AND BIRTH DEFECTS BASED ON ANIMAL DATA.

WHMIS CLASSIFICATION: REGULATED
D1B: POISONOUS AND INFECTIOUS MATERIALS
MATERIALS CAUSING IMMEDIATE AND SERIOUS TOXIC EFFECTS
TOXIC MATERIAL
D2A: POISONOUS AND INFECTIOUS MATERIALS
MATERIALS CAUSING OTHER TOXIC EFFECTS
VERY TOXIC MATERIAL
D2B: POISONOUS AND INFECTIOUS MATERIALS
MATERIALS CAUSING OTHER TOXIC EFFECTS
TOXIC MATERIAL

SECTION 02: COMPOSITION & INGREDIENT INFO

CAS#	FORMULATION	W/V	CHEMICAL NAME
000107211	R 95.0000/100.0000%	W	ETHYLENE GLYCOL
003164850	R 1.0000/ 5.0000%	W	Hexanoic acid, 2-ethyl-, potassium salt
007732185	R 1.0000/ 5.0000%	W	WATER

SECTION 2 - OTHER INFORMATION: THE CRITERIA FOR LISTING COMPONENTS IN THE COMPOSITION SECTION IS AS FOLLOWS: CARCINOGENS ARE LISTED WHEN PRESENT AT 0.1 % OR GREATER; COMPONENTS WHICH ARE OTHERWISE HAZARDOUS ACCORDING TO OSHA ARE LISTED WHEN PRESENT AT 1.0 % OR GREATER; NON-HAZARDOUS COMPONENTS ARE LISTED AT 3.0 % OR GREATER. THIS IS NOT INTENDED TO BE A COMPLETE COMPOSITIONAL DISCLOSURE. REFER TO SECTION 14 FOR APPLICABLE STATES' RIGHT TO KNOW AND OTHER REGULATORY INFORMATION. // PRODUCT IS HAZARDOUS ACCORDING TO OSHA (1910.1200). // 107211 & 3164850 ARE HAZARDOUS ACCORDING TO OSHA. // EXPOSURE LIMIT FOR TOTAL PRODUCT: NONE ESTABLISHED FOR PRODUCT.

THRESHOLD LIMIT VALUE: 107211: 39.4 PPM CEILING-ACGIH (AEROSOL) (A4)

PERMISSIBLE EXPOSURE LIMIT: 107211: 50 PPM CEILING-OSHA

CERCLA (SUPERFUND) REPORTABLE QUANTITY (LBS): IF MORE THAN 10,683 POUNDS OF PRODUCT IS SPILLED, THEN REPORT SPILL ACCORDING TO SARA 304 AND/OR CERCLA 102(A) REQUIREMENTS, UNLESS PRODUCT QUALIFIES FOR THE PETROLEUM EXEMPTION (CERCLA SECTION 101(14)). // 107211: 5000 LB. 1310583: 1000 LB.

SECTION 03: HAZARDS IDENTIFICATION

EFFECTS OF OVEREXPOSURE - SKIN ACUTE: BRIEF CONTACT IS NOT IRRITATING. PROLONGED CONTACT, AS WITH CLOTHING WETTED WITH MATERIAL, MAY CAUSE DEFATTING OF SKIN OR IRRITATION, SEEN AS LOCAL REDNESS WITH POSSIBLE MILD DISCOMFORT. OTHER THAN THE POTENTIAL SKIN IRRITATION EFFECTS NOTED ABOVE, ACUTE (SHORT TERM) ADVERSE EFFECTS ARE NOT EXPECTED FROM BRIEF SKIN CONTACT; SEE OTHER EFFECTS, BELOW, AND SECTION 11 FOR INFORMATION REGARDING POTENTIAL LONG TERM AFFECT.

EFFECTS OF OVEREXPOSURE - EYE ACUTE: MAY CAUSE IRRITATION, EXPERIENCED AS MILD DISCOMFORT AND SEEN AS SLIGHT EXCESS REDNESS OF THE EYE.

EFFECTS OF OVEREXPOSURE - INHALATION ACUTE: VAPORS 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 CONFINED SPACES, MAY CAUSE IRRITATION OF THE NOSE AND THROAT, HEADACHE, NAUSEA, AND DROWSINESS.

EFFECTS OF OVEREXPOSURE - INHALATION CHRONIC: PROLONGED OR REPEATED OVEREXPOSURE MAY RESULT IN THE ABSORPTION OF POTENTIALLY HARMFUL AMOUNTS OF MATERIAL.

EFFECTS OF OVEREXPOSURE - INGESTION ACUTE: CONTAINS ETHYLENE GLYCOL AND/OR DIETHYLENE GLYCOL, WHICH ARE TOXIC WHEN SWALLOWED. A LETHAL DOSE FOR AN ADULT IS 1-2 ML PER KILOGRAM, OR ABOUT 4 OUNCES (ONE-HALF CUP). SYMPTOMS INCLUDE HEADACHE, WEAKNESS, CONFUSION, DIZZINESS, STAGGERING, SLURRED SPEECH, LOSS OF COORDINATION, FAINTNESS, NAUSEA AND VOMITING,

INCREASED HEART RATE, DECREASED BLOOD PRESSURE, DIFFICULTY BREATHING AND SEEING, PULMONARY EDEMA, UNCONSCIOUSNESS, CONVULSIONS, COLLAPSE, AND COMA. SYMPTOMS MAY BE DELAYED. DECREASED URINE OUTPUT AND KIDNEY FAILURE MAY ALSO OCCUR. SEVERE POISONING MAY CAUSE DEATH. EFFECTS OF OVEREXPOSURE - INGESTION CHRONIC: ASPIRATION MAY OCCUR DURING SWALLOWING OR VOMITING, RESULTING IN LUNG DAMAGE. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: REPEATED OVEREXPOSURE MAY AGGRAVATE EXISTING KIDNEY DISEASE.

ADDITIONAL HEALTH HAZARD DATA: ACUTE OR CHRONIC ORAL CONSUMPTION OF PRODUCTS CONTAINING ETHYLENE GLYCOL CAN PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS, INCLUDING DEATH, IN HUMANS AND ANIMALS. KEEP OUT OF REACH OF CHILDREN AND PETS. SUCH PRODUCTS SHOULD NOT BE USED IN POTABLE (DRINKING) WATER SYSTEMS OR OTHER SYSTEMS WHERE CONTAMINATION OF POTABLE WATER SUPPLIES IS POSSIBLE (E.G., RECREATIONAL VEHICLES, WINTERIZING POTABLE WATER SYSTEMS). TEXACO RECOMMENDS THAT ALL EXPOSURES TO THIS PRODUCT BE MINIMIZED BY STRICTLY ADHERING TO RECOMMENDED OCCUPATIONAL CONTROLS PROCEDURES TO AVOID ANY POTENTIAL ADVERSE HEALTH EFFECTS.

SECTION 3 - OTHER INFORMATION: OTHER REMARKS: NONE

SECTION 04: FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES - SKIN: WASH SKIN WITH PLENTY OF SOAP AND WATER UNTIL ALL TRACES OF MATERIAL ARE REMOVED. REMOVE AND CLEAN CONTAMINATED CLOTHING (SEE OTHER INSTRUCTIONS). DESTROY NON-RESISTANT FOOTWEAR. GET MEDICAL ATTENTION IF SKIN IRRITATION PERSISTS OR CONTACT HAS BEEN PROLONGED.

EMERGENCY FIRST AID PROCEDURES - EYES: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS APART WHILE FLUSHING TO RINSE ENTIRE SURFACE OF EYE AND LIDS WITH WATER. GET MEDICAL ATTENTION.

EMERGENCY FIRST AID PROCEDURES - INHALATION: IF IRRITATION, HEADACHE, NAUSEA, OR DROWSINESS OCCURS, REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF BREATHING BECOMES DIFFICULT OR RESPIRATORY IRRITATION PERSISTS.

EMERGENCY FIRST AID PROCEDURES - INGESTION: IF PERSON IS CONSCIOUS AND CAN SWALLOW, IMMEDIATELY GIVE TWO GLASSES (I.E., 16 OZ.) OF WATER. INDUCE VOMITING AS DIRECTED BY MEDICAL PERSONNEL. GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

SECTION 4 - OTHER INFORMATION: OTHER INSTRUCTIONS: ETHYLENE GLYCOL (EG) AND DIETHYLENE GLYCOL (DEG) INTOXICATION MAY INITIALLY PRODUCE BEHAVIORAL CHANGES, DROWSINESS, VOMITING, DIARRHEA, THIRST, AND CONVULSIONS. EG AND DEG ARE NEPHROTOXIC. END STAGES OF POISONING MAY INCLUDE RENAL DAMAGE OR FAILURE WITH ACIDOSIS. SUPPORTIVE MEASURES, SUPPLEMENTED WITH HEMODIALYSIS IF INDICATED, MAY LIMIT THE PROGRESSION AND SEVERITY OF TOXIC EFFECTS. FOR ETHYLENE GLYCOL POISONING INTRAVENOUS ETHANOL IS A RECOGNIZED ANTIDOTAL TREATMENT ; OTHER ANTIDOTAL TREATMENTS ALSO EXIST FOR EG POISONING, FOR DIETHYLENE GLYCOL POISONING THE ROLE OF INTRAVENOUS ETHANOL IN THE TREATMENT IS UNCLEAR BUT IT MAY BE OF BENEFIT IN VIEW OF STRUCTURAL AND TOXICOLOGICAL SIMILARITIES TO ETHYLENE GLYCOL. CONTACT A POISON CENTER FOR FURTHER

TREATMENT INFORMATION. ASPIRATION OF THIS PRODUCT DURING INDUCED EMESIS MAY RESULT IN SEVERE LUNG INJURY. IF EVACUATION OF STOMACH IS NECESSARY, USE METHOD LEAST LIKELY TO CAUSE ASPIRATION, SUCH AS GASTRIC LAVAGE AFTER ENDOTRACHEAL INTUBATION, CONTACT A POISON CENTER FOR ADDITIONAL TREATMENT INFORMATION.

SECTION 05: FIRE-FIGHTING MEASURES

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. // EXTINGUISHING MEDIA WHICH MUST NOT BE USED: NOT DETERMINED.

SPECIAL FIRE FIGHTING PROCEDURES: WEAR FULL PROTECTIVE CLOTHING AND POSITIVE PRESSURE BREATHING APPARATUS. APPROACH FIRE FROM UPWIND TO AVOID HAZARDOUS VAPORS AND TOXIC DECOMPOSITION PRODUCTS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

HMIS CODES:

HMIS REACTIVITY CODE =	0
HMIS HEALTH CODE =	2
HMIS FLAMMABILITY CODE =	1
NFPA CODES:	
NFPA FLAMMABILITY CODE =	1
NFPA HEALTH CODE =	2
NFPA REACTIVITY CODE =	0

AUTO-IGNITION TEXT: NOT DETERMINED.

FLASH POINT TEXT: NOT APPLICABLE.

SECTION 06: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK 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 SEWERS AND WATERWAYS. AVOID CONTACT WITH SKIN, EYES OR CLOTHING.

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: HANDLING: MINIMUM FEASIBLE HANDLING TEMPERATURES SHOULD BE MAINTAINED. // STORAGE: PERIODS OF EXPOSURE TO HIGH TEMPERATURES SHOULD BE MINIMIZED. WATER CONTAMINATION SHOULD BE AVOIDED.

SECTION 08: EXPOSURE CONTROLS - PROTECTION

EYE PROTECTION: SAFETY GLASSES, CHEMICAL TYPE GOGGLES, OR FACE SHIELD RECOMMENDED TO PREVENT EYE CONTACT.

SKIN PROTECTION: PROTECTIVE CLOTHING SUCH AS COVERALLS OR LAB COATS

SHOULD BE WORN. LAUNDER OR DRY-CLEAN WHEN SOILED. CLOVES AND BOOTS RESISTANT TO CHEMICALS AND PETROLEUM DISTILLATES REQUIRED.

RESPIRATORY PROTECTION: AIRBORNE CONCENTRATIONS SHOULD BE KEPT TO LOWEST LEVELS POSSIBLE. IF VAPOR, MIST OR DUST IS GENERATED AND THE OCCUPATIONAL EXPOSURE LIMIT OF THE PRODUCT, OR ANY COMPONENT OF THE PRODUCT, IS EXCEEDED, USE APPROPRIATE NIOSH OR MSHA APPROVED AIR PURIFYING OR 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 (SEE SECTION 2).

SECTION 09: PHYSICAL & CHEMICAL PROPERTIES

THEORETICAL VOC WITHOUT WATER: VOC CONTENT: NOT DETERMINED.

BOILING POINT TEMPS: = 228.00F

MELTING/FREEZE POINT TEMPS: = - 34.00F

SPECIFIC GRAVITY VALUES: = 1.0700

VAPOR DENSITY VALUES: = 2.1000
VAPOR PRESSURE TEXT: NOT DETERMINED.

SOLUBILITY IN WATER VALUES/UOM: > 10.0000

PH OF PRODUCT AS RECEIVED (NEAT)/VALUE: = 8.3000

APPEARANCE: ORANGE LIQUID

ODOR: MILD ODOR

VISCOSITY TEXT: < 20 CST AT 40.0 C

SECTION 9 - OTHER INFORMATION: OTHER: NONE

SECTION 10: STABILITY & REACTIVITY

INCOMPATIBLE MATERIALS: NONE

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 OR COMPOUNDS OF POTASSIUM.

HAZARDOUS POLYMERIZATION INDICATOR: N
HAZARDOUS POLYMERIZATION TEXT: DO NOT OCCUR

SECTION 10 - OTHER INFORMATION: COMMENTS: NONE

SECTION 11: TOXICOLOGICAL INFORMATION

EYE EFFECTS: (DRAIZE) BELIEVED TO BE > 15.00 - 25.00 /110 (RABBIT)
SLIGHTLY IRRITATING

SKIN EFFECTS: LD50 BELIEVED TO BE > 1.00 - 2.00 G/KG (RABBIT) SLIGHTLY
TOXIC // IRRITATION INDEX, ESTIMATION OF IRRITATION (SPECIES): SKIN -
(DRAIZE) BELIEVED TO BE < .50 /8.0 (RABBIT) NO APPRECIABLE EFFECT

ACUTE ORAL EFFECTS: ANIMAL DATA DOES NOT REFLECT HUMAN TOXICITY; SEE
SECTIONS 3 & 11

ACUTE INHALATION EFFECTS: NOT DETERMINED.

CHRONIC EFFECTS: REPEATED INGESTION MAY CAUSE KIDNEY DAMAGE.

CARCINOGENICITY: PRODUCT AND/OR COMPONENT(S) CARCINOGENIC ACCORDING TO:
NONE

ALLERGEN OR SENSITIVITY: SENSITIZATION: NOT DETERMINED.

SECTION 11 - OTHER INFORMATION: SENSITIZATION PROPERTIES: UNKNOWN.
OTHER: ORAL ADMINISTRATION OF ETHYLENE GLYCOL TO PREGNANT EXPERIMENTAL
ANIMALS HAS BEEN SHOWN TO CAUSE BIRTH DEFECTS IN THE OFFSPRING. THESE
EFFECTS WERE NOT SEEN WHEN ETHYLENE GLYCOL WAS ADMINISTERED BY DERMAL
APPLICATION OR BY INHALATION. CONTINUOUS INGESTION OF A DIET CONTAINING
1% OR 2% ETHYLENE GLYCOL FOR TWO YEARS PRODUCED LIVER AND KIDNEY
DAMAGE, AND BLADDER STONES IN RATS. 2-ETHYLHEXANOIC ACID (2-EXA) CAUSED
AN INCREASE IN LIVER SIZE AND ENZYME LEVELS WHEN REPEATEDLY
ADMINISTERED TO RATS VIA THE DIET. WHEN ADMINISTERED TO PREGNANT RATS
BY GAVAGE OR IN DRINKING WATER, 2-EXA CAUSED TERATOGENICITY (BIRTH
DEFECTS) AND DELAYED POSTNATAL DEVELOPMENT OF THE PUPS. ADDITIONALLY,
2-EXA IMPAIRED FEMALE FERTILITY IN RATS. BIRTH DEFECTS WERE SEEN IN THE
OFFSPRING OF MICE WHO WERE ADMINISTERED SODIUM 2-ETHYLHEXANOATE VIA
INTRAPERITONEAL INJECTION DURING PREGNANCY.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: AQUATIC TOXICITY: NOT DETERMINED. // MOBILITY:
NOT DETERMINED. // PERSISTENCE AND BIODEGRADABILITY: THIS PRODUCT IS
ESTIMATED TO HAVE A MODERATE (30%) RATE OF BIODEGRADATION IN A TEST FOR
READY BIODEGRADATION. // POTENTIAL TO BIOACCUMULATE: THIS PRODUCT IS
ESTIMATED TO HAVE A LOW POTENTIAL TO BIOCONCENTRATE. // REMARKS: NONE

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: 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. THIS IS
BECAUSE PRODUCT USES, TRANSFORMATIONS, MIXTURES, PROCESSES, ETC. MAY
RENDER THE RESULTING MATERIALS HAZARDOUS.

SECTION 13 - OTHER INFORMATION: REMARKS: TO PREVENT CONTAMINATION OF DRINKING WATER SUPPLIES, AND POISONING OF CHILDREN, AQUATIC LIFE, WILDLIFE, AND FARM AND DOMESTIC ANIMALS, ETHYLENE GLYCOL PRODUCTS SUCH AS USED ANTIFREEZE SOLUTION, REGARDLESS OF QUANTITY, SHOULD NEVER BY DISCARDED INTO THE GROUND, INTO SURFACE WATERS, OR INTO STORM SEWERS.

SECTION 14: TRANSPORT INFORMATION

DOT INFORMATION: THIS PRODUCT CONTAINS A DOT HAZARDOUS SUBSTANCE OR SUBSTANCES, LISTED IN SECTION 14 OF THE MSDS. IF THE PRODUCT'S SHIPPING CONTAINER HOLDS AT LEAST 10,683 LBS, THEN THE DOT INFORMATION MUST BE ACCOMPANIED WITH RQ NOTATION, OR, AN OTHERWISE 'NOT REGULATED' PRODUCT WILL BE CLASSIFIED AS ENVIRONMENTALLY HAZARDOUS (SOLID/LIQUID) N.O.S., CLASS 9, UNLESS THE PRODUCT QUALIFIES FOR THE PETROLEUM EXEMPTION (49 CFR 171.8).

SHIPPING NAME: NOT REGULATED

SECTION 14 - OTHER INFORMATION: IMDG - PROPER SHIPPING NAME: NOT REGULATED // ICAO - PROPER SHIPPING NAME: NOT REGULATED // TDG - PROPER SHIPPING NAME: NOT REGULATED

SECTION 15: REGULATORY INFORMATION

SARA 311/312 HAZARD INDICATORS:

IMMEDIATE HEALTH INDICATOR = Y
DELAYED HEALTH INDICATOR = Y

SECTION 15 - OTHER INFORMATION: FEDERAL REGULATIONS - SARA TITLE III: SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCES: NONE // SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCES (CONT): NONE // SECTION 313 TOXIC CHEMICAL: 1,2 ETHANEDIOL, 107211, 35.00-49.99% // SECTION 311 HAZARDOUS CATEGORIZATION: ACUTE, CHRONIC // TSCA INVENTORY STATUS: THIS PRODUCT, OR ITS COMPONENTS, ARE LISTED ON OR ARE EXEMPT FROM THE TOXIC SUBSTANCE CONTROL ACT (TSCA) CHEMICAL SUBSTANCE INVENTORY. // OTHER: NONE. // STATE REGULATIONS: CALIFORNIA PROPOSITION 65 - THE FOLLOWING DETECTABLE COMPONENTS OF THIS PRODUCT ARE SUBSTANCES, OR BELONG TO CLASSES OF SUBSTANCES, KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND/OR REPRODUCTIVE TOXICITY. NONE // INTERNATIONAL REGULATIONS: EXPORT NOTIFICATION (TSCA-12B): THIS PRODUCT MAY BE SUBJECT TO EXPORT NOTIFICATION UNDER TSCA SECTION 12(B); CONTAINS: DIETHYLENE GLYCOL MONOBUTYL ETHER // WHMIS CLASSIFICATION: CLASS D, DIV 1, SUBDIV B: TOXIC. CLASS D, DIV 2, SUBDIV A: TERATOGENIC. CLASS D, DIV 2, SUBDIV B: CHRONIC TOXIC EFFECTS // CANADA INVENTORY STATUS: NOT DETERMINED. // EINECS INVENTORY STATUS: NOT DETERMINED. // AUSTRALIA INVENTORY STATUS: NOT DETERMINED. // JAPAN INVENTORY STATUS: NOT DETERMINED.

SECTION 16: OTHER INFORMATION

LABEL INFORMATION: READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR -DISPOSING OF PRODUCT. THIS LABEL COMPLIES WITH THE REQUIREMENTS OF THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200). FOR USE IN THE WORKPLACE, THIS LABEL IS NOT INTENDED TO BE

USED WITH PACKAGING INTENDED FOR SALE TO CONSUMERS AND MAY NOT CONFORM WITH THE REQUIREMENTS OF THE CONSUMER PRODUCT SAFETY ACT OR OTHER RELATED REGULATORY REQUIREMENTS. // 16747 HAVOLINE ELECTRA-COOL PREDILUTED 50/50 AF/COOLANT // WARNING! HARMFUL IF SWALLOWED. MAY CAUSE DIZZINESS AND DROWSINESS. MAY CAUSE EYE IRRITATION. ASPIRATION HAZARD IF SWALLOWED CAN ENTER LUNGS AND CAUSE DAMAGE. FOR INDUSTRIAL USE ONLY. CAN CAUSE KIDNEY DAMAGE IF SWALLOWED. MAY CAUSE LIVER DAMAGE IF SWALLOWED BASED ON ANIMAL DATA. ATTENTION! CONTAINS ETHYLENE GLYCOL WHICH MAY CAUSE BIRTH DEFECTS BASED ON ANIMAL DATA. CONTAINS 2-ETHYLHEXANOIC ACID OR ITS SALT WHICH MAY CAUSE ADVERSE REPRODUCTIVE EFFECTS AND BIRTH DEFECTS BASED ON ANIMAL DATA // PRECAUTIONARY MEASURES -USE ONLY WITH ADEQUATE VENTILATION. - AVOID BREATHING VAPOR, MIST, OR GAS. - AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. - KEEP CONTAINER CLOSED.- WASH THOROUGHLY AFTER HANDLING. // FIRST-AID - EYE CONTACT: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, HOLD EYELIDS APART WHILE FLUSHING TO RINSE ENTIRE SURFACE OF EYE AND LIDS WITH WATER. GET MEDICAL ATTENTION. SKIN CONTACT: WASH SKIN WITH PLENTY OF SOAP AND WATER UNTIL ALL TRACES OF MATERIAL ARE REMOVED. REMOVE AND CLEAN CONTAMINATED CLOTHING (SEE OTHER INSTRUCTIONS), DESTROY NON-RESISTANT FOOTWEAR. GET MEDICAL ATTENTION IF SKIN IRRITATION PERSISTS OR CONTACT HAS BEEN PROLONGED. INGESTION: IF PERSON IS CONSCIOUS AND CAN SWALLOW, IMMEDIATELY GIVE TWO GLASSES (I.E., 16 OZ.) OF WATER. INDUCE VOMITING AS DIRECTED BY MEDICAL PERSONNEL. GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. INHALATION: IF IRRITATION, HEADACHE, NAUSEA, OR DROWSINESS OCCURS, REMOVE TO FRESH AIR, GET MEDICAL ATTENTION IF BREATHING BECOMES DIFFICULT OR RESPIRATORY IRRITATION PERSISTS. NOTE TO PHYSICIAN: ETHYLENE GLYCOL (EG) AND DIETHYLENE GLYCOL (DEC) INTOXICATION MAY INITIALLY PRODUCE BEHAVIORAL CHANGES, DROWSINESS, VOMITING, DIARRHEA, THIRST, AND CONVULSIONS. EG AND DEG ARE NEPHROTOXIC. END STAGES OF POISONING MAY INCLUDE RENAL DAMAGE OR FAILURE WITH ACIDOSIS. SUPPORTIVE MEASURES, SUPPLEMENTED WITH HEMODIALYSIS IF INDICATED, MAY LIMIT THE PROGRESSION AND SEVERITY OF TOXIC EFFECTS. FOR ETHYLENE GLYCOL POISONING INTRAVENOUS ETHANOL IS A RECOGNIZED ANTIDOTAL TREATMENT ; OTHER ANTIDOTAL TREATMENTS ALSO EXIST FOR EG POISONING. FOR DIETHYLENE GLYCOL POISONING THE ROLE OF INTRAVENOUS ETHANOL IN THE TREATMENT IS UNCLEAR BUT IT MAY BE OF BENEFIT IN VIEW OF STRUCTURAL AND TOXICOLOGICAL SIMILARITIES TO ETHYLENE GLYCOL. CONTACT A POISON CENTER FOR FURTHER TREATMENT INFORMATION. ASPIRATION OF THIS PRODUCT DURING INDUCED EMESIS MAY RESULT IN SEVERE LUNG INJURY. IF EVACUATION OF STOMACH IS NECESSARY, USE METHOD LEAST LIKELY TO CAUSE ASPIRATION, SUCH AS GASTRIC LAVAGE AFTER ENDOTRACHEAL INTUBATION. CONTACT A POISON CENTER FOR ADDITIONAL TREATMENT INFORMATION. // FIRE: IN CASE OF FIRE, USE WATER SPRAY, DRY CHEMICAL, FOAM OR CARBON DIOXIDE. WATER MAY CAUSE FROTHING. USE WATER SPRAY TO COOL FIRE- EXPOSED CONTAINERS. // IF MORE THAN 10,683 POUNDS OF PRODUCT IS SPILLED, THEN REPORT SPILL ACCORDING TO SARA 304 AND/OR CERCLA 102(A) REQUIREMENTS, UNLESS PRODUCT QUALIFIES FOR THE PETROLEUM EXEMPTION (CERCLA SECTION 101(14)). // CHEMICAL NAME: WATER DEIONIZED 7732-18-5: 50.00-64.99%. 1,2 ETHANEDIOL 107-21-1: 35-00-49.99%. HEXANOIC ACID, 2-ETHYL-, POTASSIUM SALT 3164-85-0: 1.00-2.99%. PRODUCT IS HAZARDOUS ACCORDING TO OSHA (1910.1200). COMPONENT IS HAZARDOUS ACCORDING TO OSHA. // PENNSYLVANIA SPECIAL-HAZARDOUS SUBSTANCE(S): NONE // HMIS/NFPA - HEALTH: 2 REACTIVITY: 0 FLAMMABILITY: 1 // TRANSPORTATION - DOT PROPER SHIPPING NAME: NOT REGULATED. THIS PRODUCT CONTAINS A DOT HAZARDOUS SUBSTANCE OR SUBSTANCES, LISTED IN SECTION 14

OF THE MSDS. IF THE PRODUCT'S SHIPPING CONTAINER HOLDS AT LEAST 10,683 LBS, THEN THE DOT INFORMATION MUST BE ACCOMPANIED WITH RQ NOTATION, OR, AN OTHERWISE 'NOT REGULATED' PRODUCT WILL BE CLASSIFIED AS ENVIRONMENTALLY HAZARDOUS (SOLID/LIQUID) N.O.S., CLASS 9, UNLESS THE PRODUCT QUALIFIES FOR THE PETROLEUM EXEMPTION (49 CFR 171.8). //

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

MANUFACTURER'S NAME AND ADDRESS: TEXACO LUBRICANTS COMPANY, P.O. BOX 4427 HOUSTON, TX 77210-4427. TRANSPORTATION EMERGENCY COMPANY (914) 831-3400 CHEMTREC: (800) 424-9300. HEALTH-EMERGENCY COMPANY (914) 831-3400