¥. 5 280 Date Issued: 01-17-95 Supersedes: 05-12-94 TEXACO MATERIAL SAFETY DATA SHEET NOTE: Read and understand Material Safety Data Sheet before handling or disposing of product. 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION MATERIAL IDENTITY Product Code and Name: 02353 TEXACO ANTIFREEZE/COOLANT Chemical Name and/or Family or Description: Antifreeze Manufacturer's Name and Address: TEXACO LUBRICANTS COMPANY A DIVISION OF TEXACO REFINING AND MARKETING INC. P.O. Box 4427 Houston, TX 77210-4427 Telephone Numbers: Transportation Emergency-Company : (914) 831-3400 (800) 424-9300 CHEMTREC (914) 831-3400 Health Emergency -Company General MSDS Assistance (914) 838-7204 Technical Information -Fuels (914) 838-7336 -Chemical (512) 459-6543 -Lubricant/: (800) 782-7852 Antifreezes -Additives : (713) 235-6278 -Solvents : (800) 876-3738 2. COMPOSITION/INFORMATION ON INGREDIENTS 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 % DR 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 and/or Component(s) Carcinogenic According to: OSHA IARC NTP OTHER NONE X Composition: (Sequence Number and Chemical Name) Seq. Chemical Name CAS Number Range in % 01 * 1,2 ethanedio1 107-21-1 80.00-94.99 02 Water deionized 7732-18-5 3.00-9.99 03 * Phosphoric acid, dipotassium salt 7758-11-4 1.00-2.99 PRODUCT IS HAZARDOUS ACCORDING TO OSHA (1910, 1200). * COMPONENT IS HAZARDOUS ACCORDING TO OSHA. Exposure Limits referenced by Sequence Number in the Composition Section Seq. Limit 01 50 **ppm CEILING-OSHA** 01 50 **ppm CEILING-ACGIH** 3. HAZARD IDENTIFICATION EMERGENCY OVERVIEW Appearance: Fluorescent green liquid Odor: Mild odor PAGE : N.D. -----NOT DETERMINED N.A. - NOT APPLICABLE N.T. - NOT TESTED - LESS THAN - GREATER THAN

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3. HAZARD IDENTIFICATION (CONT)

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	ON ANIMAL DATA	4		
	HMIS		NFPA.	
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Skin:				
Brief contact	t may cause slight i	rritation. Prolonge	d contact, as with	
clotning wett	ted with material, m	ay cause more severe	irritation and dis-	
comfort, seen	as local redness a	nd swelling.		
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term) adverse	effects are not evi	Citation errects not	ed above, acute (short in contact: see other	
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Because of its irritating properties, repeated skin contact may aggravate an existing dermatitis (skin condition).

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Date Issued: 01-17-95 Supersedes: 05-12-94

3. HAZARD IDENTIFICATION (CONT)

Other Remarks: None

4. FIRST AID MEASURES

Eves:

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.

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Skin:

Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.

Indestion:

If person is conscious and can swallow, immediately give two glasses of water (16 oz.) but do not induce vomiting. If vomiting occurs, give fluids again. Have physician determine if condition of person will permit induction of vomiting or evacuation of stomach. Do not 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.

Other Instructions:

Ethylene (Diethylene) Glycol poisoning may initially produce behavior changes, drowsiness, vomiting, diarrhea, thirst, and convulsions. End stage signs of poisoning are renal damage/failure with metabolic acidosis. Immediate treatment, supplemented with hemodialysis if indicated, may limit the progression and severity of toxic effects. Intravenous Ethanol in sodium bicarbonate solution is a recognized antidotal treatment; other antidotal treatments also exist for Ethylene (Diethylene) glycol poisoning. Contact a Polson 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.

5. FIRE-FIGHTING MEASURES

NOT DETERMINED

- LESS THAN

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Ignition Temperature (degrees F) Not determined.			
Flash Point (degrees F):			
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Flammable Limits (%):			· 如何的情绪。2011年1月1日日,1月1日日,1月1日
Upper: Not determined.	n an		
Recommended Fire Extinguishing A Use water spray, dry chemical flames. Use water spray to c foam may cause frothing.	I, foam, or carbon dioxid	e to extinguis	h
Unusual or Explosive Hazards: None		 A statistical sta	ана стала стала Стала стала стал
Extinguishing Media Which Must N Not determined.	lot Be Used:		
Special Protective Equipment for	Firefighters:		
Wear full protective clothing Approach fire from upwind to products.	and positive pressure b	reathing appar nd toxic decom	atus: position
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8. ACCIDENTAL RELEASE MEASURES (Transportation Spills: CHEMTREC (800)424-9300) 74301 114433

Procedures in Case of Accidental Release, Breakage or Leakage: AN COMPANY 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. If more than 1 pounds of product is spilled, then report spillaccording to SARA 304 and/or CERCLA 102(a) requirements, unless product qualifies for the petroleum exemption (CERCLA Section 101(14)). 7. HANDLING AND STORAGE Precautions to be Taken in Handling:

Minimum feasible handling temperatures should be maintained.

Storage:

Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment (Type)

Eye/Face Protection: Safety glasses, chemical type goggles, or face shield recommended to prevent eye contact.

Skin Protection:

Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry-cleaned.

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).

Exposure Limit for Total Product:

None established f	or product; refe	r to Section 2 for	component	and the second
exposure limits.				The state of the second second second second

9. PHYSICAL AND CHEMICAL PROPERTIES

9. PHYSICAL AND CHEMICAL PROPERTIES	· · · · · · · · · · · · · · · · · · ·
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Date Issued: 01-17-95 Supersedes: 05-12-94



9. PHYSICAL AND CHEMICAL PROPERTIES (CONT)

VOC Content: Not determined.

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Vapor Density (air=1): 2.1

Solubility in Water (%):
> 10

Other: None

10. STABILITY AND REACTIVITY

This Material Reacts Violently With: (If Others is checked below, see comments for details) • Air Water Heat Strong Oxidizers Others None of These X Comments:

None

Products Evolved When Subjected to Heat or Combustion:

Toxic levels of carbon monoxide, carbon dioxide, irritating aldehydes and ketones may be formed on burning. Heating in air may produce irritating aldehydes, acids, and ketones.

*

Hazardous Polymerizations: DO NOT OCCUR

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA) Median Lethal Dose Oral: Animal data does not reflect human toxicity; see Sections 3 & 11 Inhalation: Not determined. Dermal: LD50 Believed to be < 1.00 - 3.00 g/kg (rabbit) slightly toxic Irritation Index, Estimation of Irritation (Species) Skin: (Draize) Believed to be > .50 - 3.00 /8.0 (rabbit) slightly irritating Eyes: (Draize) Believed to be > 15.00 - 25.00 /110 (rabbit) slightly irritating Sensitization: Not determined. Other: Oral administration of ethylene glycol to pregnant experimental animals

Dral 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.

12. 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. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

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 onto the ground, into surface waters, or into storm sewers.

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13. TRANSPORT INFORMATION

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 2,272,727 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). IMDG: Proper Shipping Name: Not evaluated ICAO: Proper Shipping Name: Not evaluated TDG: Proper Shipping Name: Not evaluated 14. REGULATORY INFORMATION Federal Regulations: SARA Title III: Section 302/304 Extremely Hazardous Substances Seq. Chemical Name CAS Number Range in % None Section 302/304 Extremely Hazardous Substances (CONT) Seq. TPQ RQ None Section 311 Hazardous Categorization: Acute Chronic Fire Pressure Reactive N/A X X 2 2 1000000 Section 313 Toxic Chemical Chemical Name CAS Number Concentration 1,2 ethanediol 107-21-1 80.00-94,99 CERCLA 102(a)/DOT Hazardous Substances: (+ indicates DOT Hazardous Substance) CAS Number umber Range in % 107-21-1 80.00-94.99 Seq. Chemical Name 01 1,2 ethanediol 02+ Disodium hydrogen phosphate 7558-79-4 0.10-0.99 darler Al 03+ Sodium hydroxide 病心的 1310-73-2 0.00115 CERCLA/DOT Hazardous Substances (Sequence Numbers and RQ's): Seq. RQ 01 1 The start is the start of the start way 02+ 5000 ARANTARO WARNES 03+ 1000 + weeks and the second of the second **TSCA Inventory Status:** This product is listed on the Toxic Substance Control Act (TSCA) Chemical Substance Inventory. 85 N. 1 & 8 🕈 5 Other: 1.69% (St. 1) 「読むとという」 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. Chemical Name CAS Number None States Right-to-know Regulations: Chemical Name State Right-to-know PAGE : 6 N.D. - NOT DETERMINED N.A. - NOT APPLICABLE ■n data i Sunner shara umur. Nasta nujugati umuru N.T. - NOT TESTED - LESS THAN - GREATER THAN > 12.300 0.008 1

Date Issued: 01-17-95 Supersedes: 05-12-94



1,2 ethanediol Disodium hydrogen p	hosphate	FL,IL,LA,NJ,PA,RI CT,IL,LA,NJ,PA
LA (Louis), IL (Illinois), MI (Michigan), etts), NJ (New Jersey), Island)

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International Regulations:

WHMIS Classification: Class D, Div 1, Subdiv B: Toxic Class D, Div 2, Subdiv A: Teratogenic

Canada Inventory Status:

EINECS Inventory Status: N.D.

Australia Inventory Status: N.D.

Japan Inventory Status: N.D.

15. ENVIRONMENTAL INFORMATION

Aquatic Toxicity: Not determined.

Mobility:

Not determined.

Persistence and Biodegradability:

This product is estimated to have a moderate rate of biodegradation; greater than or equal to 30 % degradation over a test period of 28 days or less.

Potential to Bioaccumulate:

This product is estimated to have a low potential to bioconcentrate.

Remarks: None

16. OTHER INFORMATION

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.

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE. IT IS PROVIDED INDEPENDENTLY OF ANY SALE OF THE PRODUCT FOR PURPOSE OF HAZARD COMMUNICATION AS PART OF TEXACO''S PRODUCT SAFETY PROGRAM. IT IS NOT INTENDED TO CONSTITUTE PERFORMANCE INFORMATION CONCERNING THE PRODUCT. NO EXPRESS WARRANTY, OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE WITH RESPECT TO THE PRODUCT OR THE INFORMATION CONTAINED HEREIN. DATA SHEETS ARE AVAILABLE FOR ALL TEXACO PRODUCTS. YOU ARE URGED TO OBTAIN DATA SHEETS FOR ALL TEXACO PRODUCTS YOU BUY, PROCESS, USE OR DISTRIBUTE AND YOU ARE ENCOURAGED AND REQUESTED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN.

TO DETERMINE APPLICABILITY OR EFFECT OF ANY LAW OR REGULATION WITH RESPECT TO THE PRODUCT, USER SHOULD CONSULT HIS LEGAL ADVISOR OR THE APPROPRIATE GOVERNMENT AGENCY. TEXACO DOES NOT UNDERTAKE TO FURNISH ADVICE ON SUCH

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16. OTHER INFORMATION (CONT)

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Date: 01-17-95 New X Revised, Supersedes: 05-12-94 Date printed: 01-22-95

Inquiries regarding MSDS should be directed to: Texaco Inc. Manager, Product Safety P.O. Box 509 Beacon, N.Y. 12508

PLEASE SEE NEXT PAGE FOR PRODUCT LABEL

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17. PRODUCT LABEL

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.

02353 TEXACO ANTIFREEZE/COOLANT

WARNING I

WARNING STATEMENT

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 1

CONTAINS ETHYLENE GLYCOL WHICH MAY CAUSE BIRTH DEFECTS BASED ON ANIMAL DATA

Date Issued: 01-17-95

Supersedes: 05-12-94

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 for several minutes. Get medical attention if skin irritation develops or persists. Indestion:

If person is conscious and can swallow, immediately give two glasses of water (16 oz.) but do not induce vomiting. If vomiting occurs, give fluids again. Have physician determine if condition of person will permit induction of vomiting or evacuation of stomach. Do not 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 (Diethylene) Glycol poisoning may initially produce behavior changes, drowsiness, vomiting, diarrhea, thirst, and convulsions. End stage signs of poisoning are renal damage/failure with metabolic acidosis. Immediate treatment, supplemented with hemodialysis if indicated, may limit the progression and severity of toxic effects. Intravenous Ethanol in sodium bicarbonate solution is a recognized antidotal treatment; other antidotal treatments also exist for Ethylene (Diethylene) glycol poisoning. 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 1 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 CAS Number ____<u>Range in %</u> 1,2 ethanediol 107-21-1 80.00-94.99 Water deionized 7732-18-5 3.00-9.99 Phosphoric acid, dipotassium salt 7758-11-4 1.00-2.99

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