


**Material Safety  
Data Sheets**

Division of Facilities Services

## DOD Hazardous Material Information (ANSI Format) For Cornell University Convenience Only

### 02353 TEXACO ANTIFREEZE/COOLANT

Section 1 - Product and Company Identification	Section 9 - Physical & Chemical Properties
Section 2 - Composition/Information on Ingredients	Section 10 - Stability & Reactivity Data
Section 3 - Hazards Identification Including Emergency Overview	Section 11 - Toxicological Information
Section 4 - First Aid Measures	Section 12 - Ecological Information
Section 5 - Fire Fighting Measures	Section 13 - Disposal Considerations
Section 6 - Accidental Release Measures	Section 14 - MSDS Transport Information
Section 7 - Handling and Storage	Section 15 - Regulatory Information
Section 8 - Exposure Controls & Personal Protection	Section 16 - Other Information

The information in this document is compiled from information maintained by the United States Department of Defense (DOD). Anyone using this information is solely responsible for the accuracy and applicability of this information to a particular use or situation.

Cornell University does not in any way warrant or imply the applicability, viability or use of this information to any person or for use in any situation.

### Section 1 - Product and Company Identification 02353 TEXACO ANTIFREEZE/COOLANT

**Product Identification:** 02353 TEXACO ANTIFREEZE/COOLANT

**Date of MSDS:** 01/30/1995 **Technical Review Date:** 04/19/1995

**FSC:** 6850 **NIIN:** LIIN: 00F004675

**Submitter:** F BT

**Status Code:** C

**MFN:** 02

**Article:** N

**Kit Part:** N

**Manufacturer's Information**

**Manufacturer's Name:** TEXACO REFINING AND MARKETING INC  
**Post Office Box:** 4427  
**Manufacturer's Address1:** 1111 RUSK ST  
**Manufacturer's Address2:** HOUSTON, TX 77210-4427  
**Manufacturer's Country:** US  
**General Information Telephone:** 914-838-7204  
**Emergency Telephone:** 914-831-3400/713-650-5206  
**Emergency Telephone:** 914-831-3400/713-650-5206  
**MSDS Preparer's Name:** N/P  
**Proprietary:** N  
**Reviewed:** Y  
**Published:** Y  
**CAGE:** 2R503  
**Special Project Code:** N

**Preparer Information**

**Preparer's Name:** TEXACO REFINING AND MARKETING INC  
**Preparer's Address1:** 1111 RUSK ST  
**Preparer's Address2:** HOUSTON, TX 77002-3310  
**Preparer's CAGE:** 2R503  
**Assigned Individual:** N

**Contractor Information**

**Contractor's Name:** TEXACO REFINING AND MARKETING INC  
**Contractor's Address1:** 1111 RUSK ST  
**Contractor's Address2:** HOUSTON, TX 77002-3310  
**Contractor's Telephone:** 713-650-5206  
**Contractor's CAGE:** 2R503

---

**Section 2 - Composition/Information on Ingredients**  
**02353 TEXACO ANTIFREEZE/COOLANT**

---

**Ingredient Name:** ETHYLENE GLYCOL, GLYCOL  
**Ingredient CAS Number:** 107-21-1 **Ingredient CAS Code:** M  
**RTECS Number:** KW2975000 **RTECS Code:** M  
**=WT: =WT Code:**  
**=Volume: =Volume Code:**  
**>WT: >WT Code:**  
**>Volume: >Volume Code:**  
**<WT: <WT Code:**  
**<Volume: <Volume Code:**  
**% Low WT: % Low WT Code:**  
**% High WT: % High WT Code:**  
**% Low Volume: % Low Volume Code:**  
**% High Volume: % High Volume Code:**  
**% Text:** 80/94.9  
**% Environmental Weight:**

**Other REC Limits:** 10 MG/CUM  
**OSHA PEL:** 50 PPM **OSHA PEL Code:** M  
**OSHA STEL:** **OSHA STEL Code:**  
**ACGIH TLV:** C 127 MG/CUM **ACGIH TLV Code:** M  
**ACGIH STEL:** N/P **ACGIH STEL Code:**  
**EPA Reporting Quantity:** 1 LB  
**DOT Reporting Quantity:** 1 LB  
**Ozone Depleting Chemical:** N

**Ingredient Name:** POTASSIUM PHOSPHATE, DIBASIC \*95-1\*  
**Ingredient CAS Number:** 7758-11-4 **Ingredient CAS Code:** M  
**RTECS Number:** RTECS **Code:** X  
**=WT:** **=WT Code:**  
**=Volume:** **=Volume Code:**  
**>WT:** **>WT Code:**  
**>Volume:** **>Volume Code:**  
**<WT:** **<WT Code:**  
**<Volume:** **<Volume Code:**  
**% Low WT:** **% Low WT Code:**  
**% High WT:** **% High WT Code:**  
**% Low Volume:** **% Low Volume Code:**  
**% High Volume:** **% High Volume Code:**  
**% Text:** 1-2.99  
**% Environmental Weight:**  
**Other REC Limits:** N/K  
**OSHA PEL:** N/K **OSHA PEL Code:** M  
**OSHA STEL:** **OSHA STEL Code:**  
**ACGIH TLV:** N/K **ACGIH TLV Code:** M  
**ACGIH STEL:** N/P **ACGIH STEL Code:**  
**EPA Reporting Quantity:**  
**DOT Reporting Quantity:**  
**Ozone Depleting Chemical:** N

**Ingredient Name:** SODIUM HYDROXIDE, CAUSTIC SODA, LYE  
**Ingredient CAS Number:** 1310-73-2 **Ingredient CAS Code:** M  
**RTECS Number:** WB4900000 **RTECS Code:** M  
**=WT:** **=WT Code:**  
**=Volume:** **=Volume Code:**  
**>WT:** **>WT Code:**  
**>Volume:** **>Volume Code:**  
**<WT:** **<WT Code:**  
**<Volume:** **<Volume Code:**  
**% Low WT:** **% Low WT Code:**  
**% High WT:** **% High WT Code:**  
**% Low Volume:** **% Low Volume Code:**  
**% High Volume:** **% High Volume Code:**  
**% Text:** 0.00115  
**% Environmental Weight:**  
**Other REC Limits:** 2MG/M3 CEILING NIOSH  
**OSHA PEL:** 2 MG/CUM **OSHA PEL Code:** M  
**OSHA STEL:** **OSHA STEL Code:**

**ACGIH TLV: 2 MG/CUM CEILING ACGIH TLV Code: M**  
**ACGIH STEL: N/P ACGIH STEL Code:**  
**EPA Reporting Quantity: 1000 LBS**  
**DOT Reporting Quantity: 1000 LBS**  
**Ozone Depleting Chemical: N**

**Ingredient Name: WATER**  
**Ingredient CAS Number: 7732-18-5 Ingredient CAS Code: M**  
**RTECS Number: ZC0110000 RTECS Code: M**  
**=WT: =WT Code:**  
**=Volume: =Volume Code:**  
**>WT: >WT Code:**  
**>Volume: >Volume Code:**  
**<WT: <WT Code:**  
**<Volume: <Volume Code:**  
**% Low WT: % Low WT Code:**  
**% High WT: % High WT Code:**  
**% Low Volume: % Low Volume Code:**  
**% High Volume: % High Volume Code:**  
**% Text: 3-9.99**  
**% Environmental Weight:**  
**Other REC Limits: N/K**  
**OSHA PEL: N/K OSHA PEL Code: M**  
**OSHA STEL: OSHA STEL Code:**  
**ACGIH TLV: N/K ACGIH TLV Code: M**  
**ACGIH STEL: N/P ACGIH STEL Code:**  
**EPA Reporting Quantity:**  
**DOT Reporting Quantity:**  
**Ozone Depleting Chemical: N**

---

**Section 3 - Hazards Identification, Including Emergency Overview**  
**02353 TEXACO ANTIFREEZE/COOLANT**

---

**Health Hazards Acute & Chronic:** EYES: IRRITATION. SKIN: SLIGHT IRRITATION. INHALATION: IRRITATION OF THE NOSE & THROAT. INGESTION: ETHYLENE GLYCOL/DIETHYLENE GLYCOL- ARE TOXIC WHEN SWALLOWED. A LETHAL DOSE FOR AN ADULT IS 1-2 ML PER KILOGRAM/ABOUT 4 OZ (ONE HALF CUP). PULMONARY EDEMA, COMA, DECREASED URINE & KIDNEY FAILURE. (SEE SUPP)

**Signs & Symptoms of Overexposure:**

IRRITATION, DISCOMFORT, REDNESS, SWELLING, HEADACHE, NAUSEA, DROWSINESS, WEAKNESS, CONFUSION, DIZZINESS, STAGGERING, SLURRED SPEECH, LOSS OF COORDINATION, FAINTNESS, VOMITING, INCREASED HEART RATE, DECREASED BLOOD PRESSURE, DIFFICULTY BREATHING, SEEING, UNCONSCIOUSNESS, CONVULSIONS, COLLAPSE.

**Medical Conditions Aggravated by Exposure:**

EXISTING KIDNEY DISEASE & EXISTING DERMATITIS.

**LD50 LC50 Mixture: N/P**

**Route of Entry Indicators:****Inhalation:** YES**Skin:** YES**Ingestion:** YES**Carcenogenicity Indicators****NTP:** NO**IARC:** NO**OSHA:** NO**Carcinogenicity Explanation:** NONE

---

**Section 4 - First Aid Measures**  
**02353 TEXACO ANTIFREEZE/COOLANT**

---

**First Aid:**

EYES: IMMEDIATELY FLUSH W/PLENTY OF WATER FOR 15 MINS. SKIN: WASH W/PLENTY OF SOAP & WATER FOR SEVERAL MIN. INGESTION: IF CONSCIOUS & CAN SWALLOW IMMEDIATELY GIVE 2 GLASSES OF WATER (16 OZ) BUT DON'T INDUCE VOMITING. ASPIRATION HAZARD. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. HAVE PHYSICIAN DETERMINE IF CONDITION OF PERSON WILL PERMIT INDUCTION OF VOMITING/EVACUATION OF STOMACH. (SEE SUPP)

---

**Section 5 - Fire Fighting Measures**  
**02353 TEXACO ANTIFREEZE/COOLANT**

---

**Fire Fighting Procedures:**

WEAR FULL PROTECTIVE CLOTHING & POSITIVE PRESSURE BREATHING APPARATUS. APPROACH FROM UPWIND TO AVOID HAZARDOUS VAPORS & TOXIC DECOMPOSITION PRODUCTS.

**Unusual Fire or Explosion Hazard:**

NONE

**Extinguishing Media:**

USE WATER SPRAY, DRY CHEMICAL, FOAM/CO. USE WATER SPRAY TO COOL CONTAINERS. WATER/FOAM MAY CAUSE FROTHING.

**Flash Point:** Flash Point Text: 244F**Autoignition Temperature:****Autoignition Temperature Text:** N/A**Lower Limit(s):** N/K**Upper Limit(s):** N/K

---

**Section 6 - Accidental Release Measures**  
**02353 TEXACO ANTIFREEZE/COOLANT**

---

**Spill Release Procedures:**

VENTILATE AREA. AVOID BREATHING VAPOR. WEAR APPROPRIATE PROTECTIVE EQUIPMENT, INCLUDING RESPIRATORY PROTECTION. CONTAIN IF POSSIBLE. WIPE UP/ABSORB ON SUITABLE MATERIAL & SHOVEL UP. PREVENT ENTRY INTO SEWERS & WATERWAYS.

---

**Section 7 - Handling and Storage**  
**02353 TEXACO ANTIFREEZE/COOLANT**

---

**Handling and Storage Precautions:**

**Other Precautions:**

---

**Section 8 - Exposure Controls & Personal Protection**  
**02353 TEXACO ANTIFREEZE/COOLANT**

---

**Respiratory Protection:**

USE NIOSH/MSHA APPROVED AIR PURIFYING/AIR SUPPLIED RESPIRATOR. AIR SUPPLIED RESPIRATORS SHOULD ALWAYS BE WORN WHEN AIRBORNE CONCENTRATION OF THE CONTAMINANT/OXYGEN CONTENT IS UNKNOWN.

**Ventilation:**

ADEQUATE TO MEET COMPONENT OCCUPATIONAL EXPOSURE LIMITS.

**Protective Gloves:**

N/K

**Eye Protection:** SAFETY GLASSES/CHEMICAL GOGGLES

**Other Protective Equipment:** FACE SHIELD RECOMMENDED.

**Work Hygienic Practices:** REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. WASH SEVERAL TIMES DAILY W/SOAP & WATER.

**Supplemental Health & Safety Information:** HEALTH HAZARDS CONT'D: SEVERE POISONING MAY CAUSE DEATH. ASPIRATION MAY OCCUR DURING SWALLOWING/VOMITING RESULTING IN LUNG DAMAGE. FIRST AID CONT'D: DON'T GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS/CONVULSING PERSON. INHALATION: REMOVE TO FRESH AIR. OBTAIN MEDICAL ATTENTION IN ALL CASES.

---

**Section 9 - Physical & Chemical Properties**  
**02353 TEXACO ANTIFREEZE/COOLANT**

---

**HCC:**

**NRC/State License Number:**

**Net Property Weight for Ammo:**

**Boiling Point:** Boiling Point Text: 388F

**Melting/Freezing Point:** Melting/Freezing Text: N/R

**Decomposition Point:** Decomposition Text: N/K

**Vapor Pressure:** <0.1 Vapor Density: 2.1

**Percent Volatile Organic Content:**

**Specific Gravity:** 1.13

**Volatile Organic Content Pounds per Gallon:**

**pH:** N/K

**Volatile Organic Content Grams per Liter:**

**Viscosity:** N/P

**Evaporation Weight and Reference:** N/K

**Solubility in Water:** >10

**Appearance and Odor:** FLUORESCENT GREEN LIQUID W/MILD ODOR

**Percent Volatiles by Volume:** N/K

**Corrosion Rate:** N/K

---

---

**Section 10 - Stability & Reactivity Data**  
**02353 TEXACO ANTIFREEZE/COOLANT**

---

**Stability Indicator:** YES

**Materials to Avoid:**

N/K

**Stability Condition to Avoid:**

NONE

**Hazardous Decomposition Products:**

CO, CO<sub>2</sub>, ALDEHYDES, KETONES, ACIDS

**Hazardous Polymerization Indicator:** NO

**Conditions to Avoid Polymerization:**

N/K

---

**Section 11 - Toxicological Information**  
**02353 TEXACO ANTIFREEZE/COOLANT**

---

**Toxicological Information:**

N/P

---

**Section 12 - Ecological Information**  
**02353 TEXACO ANTIFREEZE/COOLANT**

---

**Ecological Information:**

N/P

---

**Section 13 - Disposal Considerations**  
**02353 TEXACO ANTIFREEZE/COOLANT**

---

**Waste Disposal Methods:**

THIS PRODUCT HAS BEEN EVALUATED FOR RCRA CHARACTERISTICS & DOESN'T MEET THE CRITERIA OF A HAZARDOUS WASTE IF DISCARDED IN ITS PURCHASED FORM.

---

**Section 14 - MSDS Transport Information**  
**02353 TEXACO ANTIFREEZE/COOLANT**

---

**Transport Information:**

N/P

---

**Section 15 - Regulatory Information**  
**02353 TEXACO ANTIFREEZE/COOLANT**

---

**SARA Title III Information:**

N/P

**Federal Regulatory Information:**

N/P

**State Regulatory Information:**

N/P

---

**Section 16 - Other Information**  
**02353 TEXACO ANTIFREEZE/COOLANT**

---

**Other Information:**

N/P

**HAZCOM Label Information**

**Product Identification:** 02353 TEXACO ANTIFREEZE/COOLANT

**CAGE:** 2R503

**Assigned Individual:** N

**Company Name:** TEXACO REFINING AND MARKETING INC

**Company PO Box:**

**Company Street Address1:** 1111 RUSK ST

**Company Street Address2:** HOUSTON, TX 77002-3310 US

**Health Emergency Telephone:** 914-831-3400/713-650-5206

**Label Required Indicator:** Y

**Date Label Reviewed:** 12/16/1998

**Status Code:** C

**Manufacturer's Label Number:**

**Date of Label:** 12/16/1998

**Year Procured:** N/K

**Organization Code:** G

**Chronic Hazard Indicator:** N/P

**Eye Protection Indicator:** N/P

**Skin Protection Indicator:** N/P

**Respiratory Protection Indicator:** N/P

**Signal Word:** N/P

**Health Hazard:**

**Contact Hazard:**

**Fire Hazard:**

**Reactivity Hazard:**

---

8/8/2002 7:52:27 AM