



MATERIAL SAFETY DATA SHEET

1. PRODUCT INFORMATION

MATERIAL IDENTITY

Product code and name:

07997 TEXACO EXTENDED LIFE COOLANT/ANTIFREEZE "RED" ANTIFREEZE

Chemical name and/or family or description:

Antifreeze

Manufacturer's name and address:

TEXACO LUBRICANTS COMPANY, NA

6975 Pacific Circle, Unit A

Mississauga, Ontario

L5T 2H3, Canada

Telephone numbers:

Transportation emergency:

(800) 567-7455

CHEMTREC (USA): (800) 424-9300

Health emergency-Company: (504) 680-1900

MSDS Assistance (USA):(845)838-7204

Technical Information - Fuels, Fuel Additives: (845) 838-7611

Technical Information - Coolants: (845) 838-7444

Product and/or component(s) Carcinogenic

According to:

NONE

WHMIS:

Class D, Div 1, Subdiv B: Toxic

Class D, Div 2, Subdiv A: Reproductive toxicity

Class D, Div 2, Subdiv A: Teratogenic

Class D, Div 2, Subdiv B: Chronic toxic effects

2. HAZARDOUS INGREDIENTS

Name	Cas nr	Range in %
1,2 ethanediol	107-21-1	80 - 94.99
50.00 ppm CEILING-OSHA 39.40 ppm CEILING-ACGIH (AEROSOL) (A4)	3164-85-0	3 - 9.99
Hexanoic acid, 2-ethyl-, potassium salt		

3. PHYSICAL DATA

Appearance:	Orange liquid
Odor:	Mild odor
Vapor Pressure:	Not determined.
Vapor Density (air=1):	2.1
Boiling Point (degrees C):	108.89
Melting/Freezing point (degrees C):	Not applicable.
pH of undiluted product:	8.1 - 8.9
Specific Gravity (water=1):	1 - 1.5
Solubility in Water (%):	> 10
Viscosity (degrees C):	< 20 cSt (40.00)
VOC Content:	Not determined.
Other:	None

4. FIRE OR EXPLOSION DATA

Ignition Temperature - AIT (degrees C):

Not determined.

Flash Point (degrees C):

> 120 (PMCC)

Recommended Fire Extinguishing Agents and Special Procedures:

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:

Water jet.

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

Unusual or Explosive Hazards:

None

Special Protective Equipment for Firefighters:

Wear full protective clothing and positive pressure breathing apparatus. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products.

5. REACTIVITY DATA

This material reacts violently with:

None

Comments:

None

Hazardous Polymerizations:

No

6. TOXICOLOGICAL PROPERTIES**Primary Route of Exposure:**

EYES

SKIN

INHALATION

EFFECTS OF OVEREXPOSURE**Acute:****Eyes:**

May cause irritation, experienced as mild discomfort and seen as slight excess redness of the eye.

Skin:

Brief contact may cause slight irritation. Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort, seen as local redness and swelling.

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 effects.

Inhalation:

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.

Prolonged or repeated overexposure may result in the absorption of potentially harmful amounts of material.

Ingestion:

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.

Aspiration may occur during swallowing or vomiting, resulting in lung damage.

Chronic:

Repeated ingestion may cause kidney damage.

Sensitization Properties:

Unknown.

Medical Conditions Aggravated by Over Exposure:

Repeated overexposure may aggravate existing kidney disease.

Because of its irritating properties, repeated skin contact may aggravate an existing dermatitis (skin condition).

Exposure Control for Total Product:

None established for product, refer to Section 2 for component exposure limits.

Other Remarks:

None

TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)**Median Lethal Dose****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, 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 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.

Aquatic Toxicity:

Not determined.

Mobility:

Not determined.

Persistence and Biodegradability:

This product is estimated to have a moderate ($\geq 30\%$) 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

7. PREVENTATIVE MEASURES**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.

Protective Equipment (Type)Eye/Face 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. Gloves 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).

Procedures in Case of Accidental Release, Breakage or Leakage:

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.

Waste Disposal Methods:

Dispose of this product in accordance with local and/or national regulations.

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

Precautions to be Taken inHandling:

Minimum feasible handling temperatures should be maintained.

Storage:

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

DOT: Not determined

IMDG: Not regulated

ICAO: Not regulated

TDG: Not regulated

Regulatory Information:

Regulatory Comments:

One or more ingredients in this product are not listed on the Canadian Domestic Substances List (DSL), and may require notification before importing into Canada.

This product, or its components, are listed on or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

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.

8. FIRST AID MEASURES

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.

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.

Ingestion:

If person is conscious and can swallow, immediately give two glasses (i.e., 16 oz.) of water but do not induce vomiting. 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 (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.

Product Code :

Date Issued : 09/11/2001

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.

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