

MATERIAL SAFETY DATA SHEET  
EQUILON MSDS: 07997ET 11/07/99

## TEXACO EXTENDED LIFE COOLANT/ANTIFREEZE

TELEPHONE NUMBER:

HOUR EMERGENCY ASSISTANCE

EQUIVA SERVICES: 877-276-7283

CHEMTREC: 800-424-9300

GENERAL MSDS ASSISTANCE

877-276-7285

NAME AND ADDRESS:

EQUILON ENTERPRISES LLC

PRODUCT STEWARDSHIP

P.O. BOX 674414

HOUSTON, TX 77267-4414

LEGEND:

N.D. - NOT DETERMINED

N.A. - NOT APPLICABLE

N.T- NOT TESTED

&lt; - LESS THAN

&gt; - GREATER THAN

## 1. NAME

## MATERIAL IDENTITY

Product Code and Name:

07997 TEXACO EXTENDED LIFE COOLANT/ANTIFREEZE

Chemical Name and/or Family or Description:

Antifreeze

## 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 % 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 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 ethanediol

107-21-1 80.00-94.99

02 \* Hexanoic acid, 2-ethyl-, potassium salt

3164-85-0 3.00-9.99

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 39.4 ppm CEILING-ACGIH (AEROSOL) (A4)

## 3. HAZARD IDENTIFICATION

## EMERGENCY OVERVIEW

Appearance:

Red 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

To: 705 JUN 15 '01 03:43PM ALLIED OIL CO. CAUSE EYE OR DAMAGE IF SWALLOWED BASED ON ANIMAL P.5-38  
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

HMIS		NFPA	
Health: 2	Reactivity: 0	Health: 2	Reactivity: 0
Flammability: 1	Special : -	Flammability: 1	Special : -

POTENTIAL HEALTH EFFECTS

	EYE	SKIN	INHALATION	INGESTION
Primary Route of Exposure:	X	X	X	-

#### 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.

##### Sensitization Properties:

Unknown.

##### Chronic:

Repeated ingestion may cause kidney damage.

##### Medical Conditions Aggravated by Exposure:

Repeated overexposure may aggravate existing kidney disease.

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

##### Other Remarks:

None

#### 4. 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 (8 oz., 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.

**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.

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**5. FIRE-FIGHTING MEASURES**

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Ignition Temperature - AIT (degrees F):

Not determined.

Flash Point (degrees F):

260 (PMCC)

Flammable Limits (%):

Lower: Not determined.

Upper: Not determined.

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.

Unusual or Explosive Hazards:

None

Extinguishing Media Which Must Not Be Used:

Not determined.

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.

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**6. ACCIDENTAL RELEASE MEASURES (Transportation Spills: CHEMTREC (800)424-9300)**

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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.

If more than 5,477 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)).

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**7. HANDLING AND STORAGE**

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Precautions to be Taken in

Handling:

Minimum feasible handling temperatures should be maintained.

Storage:

Periods of exposure to high temperatures should be minimized. Water

## 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:

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).

#### Exposure Limit for Total Product:

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance:

Red liquid

### Odor:

Mild odor

### Boiling Point (degrees F):

228

Melting/Freezing point (degrees F):

-34

### Specific Gravity (water=1):

1.13

### pH of undiluted product:

8.3

### Vapor Pressure:

Not determined.

### Viscosity:

8 cSt at 40.0 C

### VOC Content:

Not determined.

### 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, and combustion products or compounds of potassium.

### 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 - 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 v. intraperitoneal injection during pregnancy.

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

## 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 5,477 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 regulated

## ICAO:

Proper Shipping Name:

Not regulated

## TDG:

# 14. REGULATORY INFORMATION

## Federal Regulations:

### ARA 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

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)  
 Seq. Chemical Name CAS Number Range in %

01+ 1,2 ethanediol

107-21-1 80.00-94.99

02+ Sodium nitrite

7632-00-0 0.10-0.99

CERCLA/DOT Hazardous Substances (Sequence Numbers and RQ's):

Seq. RQ

01+ 5000

02+ 100

## 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.

Chemical Name

CAS Number

None

## International Regulations:

Export Notification (TSCA-12b):

This product may be subject to export notification under TSCA section 12(b); contains:

Sodium nitrite

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.

**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

**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).

It is recommended 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 IN THIS DATA SHEET IS BASED ON THE DATA AVAILABLE TO US AT THIS TIME, AND IS BELIEVED TO BE ACCURATE BASED UPON THAT DATA. IT IS PROVIDED INDEPENDENTLY OF ANY SALE OF THE PRODUCT, FOR PURPOSE OF HAZARD COMMUNICATION. IT IS NOT INTENDED TO CONSTITUTE PRODUCT PERFORMANCE INFORMATION, AND NO EXPRESS OR IMPLIED WARRANTY OF ANY KIND IS MADE WITH RESPECT TO THE PRODUCT, UNDERLYING DATA OR THE INFORMATION CONTAINED HEREIN. YOU ARE URGED TO OBTAIN DATA SHEETS FOR ALL PRODUCTS YOU BUY, PROCESS, USE OR DISTRIBUTE, AND ARE ENCOURAGED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN.

TO DETERMINE THE APPLICABILITY OR EFFECT OF ANY LAW OR REGULATION WITH RESPECT TO THE PRODUCT, YOU SHOULD CONSULT WITH YOUR LEGAL ADVISOR OR THE APPROPRIATE GOVERNMENT AGENCY. WE WILL NOT PROVIDE ADVICE ON SUCH MATTERS, OR BE RESPONSIBLE FOR ANY INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN. THE UNDERLYING DATA, AND THE INFORMATION PROVIDED HEREIN AS A RESULT OF THAT DATA, IS THE PROPERTY OF EQUIVA SERVICES, LLC AND IS NOT TO BE THE SUBJECT OF SALE OR EXCHANGE WITHOUT THE EXPRESS WRITTEN CONSENT OF EQUIVA SERVICES, LLC.

Date: 1999-11-07                      New              X              Revised, Supersedes: 1999-01-04

Inquiries regarding MSDS should be directed to:

EQUIVA SERVICES LLC  
Manager Product Stewardship  
P.O. Box 674414  
Houston, TX 77267-4414

**17. PRODUCT LABEL**

Label Date: 1999-11-07

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.

07997 TEXACO EXTENDED LIFE COOLANT/ANTIFREEZE

**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

JUN 15 '01 03:52PM ALLIED OIL HOUSE ONLY

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## ATTENTION :

CAN CAUSE KIDNEY DAMAGE IF SWALLOWED  
 MAY CAUSE LIVER DAMAGE IF SWALLOWED BASED ON ANIMAL DATA  
 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 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.

## 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 5,477 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	Range in %
* 1,2 ethanediol	107-21-1	80.00-94.99
* Hexanoic acid, 2-ethyl-, potassium salt	3164-85-0	3.00-9.99
PRODUCT IS HAZARDOUS ACCORDING TO OSHA (1910.1200).		
* COMPONENT IS HAZARDOUS ACCORDING TO OSHA.		
Pennsylvania Special Hazardous Substance(s)	CAS Number	Range in %



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## HMIS

## NFPA

Health: 2 Reactivity: 0  
Flammability: 1 Special : -

Health: 2 Reactivity: 0  
Flammability: 1 Special : -

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

5,477 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.

Name and Address:

Equilon Enterprises LLC

P.O. Box 674414

Houston, TX 77267-4414

TRANSPORTATION EMERGENCY: (877)276-7283

CHEMTREC: (800)424-9300

HEALTH EMERGENCY: (877)276-7283



# MATERIAL SAFETY DATA SHEET

EQUILON MSDS: 80070E-13 12/29/95

## SHELLZONE(R) ALL SEASON ANTI-FREEZE ANTI-BOIL PROTECTION

**TELEPHONE NUMBER:**

24 HOUR EMERGENCY ASSISTANCE  
EQUIVA SERVICES: 877-276-7283  
CHEMTREC: 800-424-9300

GENERAL MSDS ASSISTANCE  
877-276-7285

**NAME AND ADDRESS**

EQUILON ENTERPRISES LLC  
PRODUCT STEWARDSHIP  
P.O. BOX 674414  
HOUSTON, TX 77267-4414

**SECTION I****NAME**

**PRODUCT:** SHELLZONE(R) ALL SEASON ANTI-FREEZE  
ANTI-BOIL PROTECTION  
**CHEM NAME:** ETHYLENE GLYCOL  
**CHEM FAMILY:** GLYCOL  
**SHELL CODE:** 32350 94010

HEALTH HAZARD: 3 FIRE HAZARD: 1 REACTIVITY: 0

**SECTION II-A****INGREDIENTS**

NO.	COMPOSITION	CAS NO.	PERCENT
P	SHELLZONE(R) ALL SEASON ANTI-FREEZE ANTI-BOIL PROTECTION	MIXTURE	100
1	ETHYLENE GLYCOL	107-21-1	84-94
2	DIETHYLENE GLYCOL	111-46-6	0-10
3	WATER	7732-18-5	2-4
4	INORGANIC/ORGANIC SALTS		2-4

NFPA HAZARD RATING: HEALTH 1 FIRE 1 REACTIVITY 0

**SECTION II-B****ACUTE TOXICITY DATA**

NO.	ACUTE ORAL LD50	ACUTE DERMAL LD50	ACUTE INHALATION LC50
1	4.0 G/KG (RAT)	NONE	NONE
2	14.8 G/KG (RAT)	11.9 G/KG (RAT)	NONE

**SECTION III****HEALTH INFORMATION**

THE HEALTH EFFECTS NOTED BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

**EYE CONTACT:** BASED ON PRESENCE OF COMPONENT 1, PRODUCT IS MODERATELY TO

SEVERELY IRRITATING TO THE EYES. VAPORS CAN ALSO CAUSE SEVERE EYE IRRITATION.

**SKIN CONTACT:** BASED ON PRESENCE OF COMPONENTS 1 AND 2, PRODUCT IS MILDLY IRRITATING TO THE SKIN AND SLIGHTLY TOXIC ON PROLONGED OR REPEATED CONTACT.

**INHALATION:** VAPORS ARE MILDLY TO MARKEDLY IRRITATING TO THE LUNGS DEPENDING ON THE EXPOSURE LEVEL.

**INGESTION:** PRODUCT MAY BE HARMFUL OR FATAL IF SWALLOWED; MAY PRODUCE CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION AND KIDNEY DAMAGE WHICH MAY BE FATAL. INGESTION OF COMPONENT 2 MAY ALSO PRODUCE LIVER DAMAGE.

**SIGNS AND SYMPTOMS:** IRRITATION AS NOTED ABOVE. EARLY TO MODERATE CNS DEPRESSION MAY BE EVIDENCED BY GIDDINESS, HEADACHE, DIZZINESS AND NAUSEA; IN EXTREME CASES, UNCONSCIOUSNESS AND DEATH MAY OCCUR. KIDNEY DAMAGE MAY BE EVIDENCED BY CHANGES IN URINE OUTPUT, URINE APPEARANCE OR EDEMA (SWELLING FROM FLUID RETENTION). LIVER DAMAGE MAY BE EVIDENCED BY LOSS OF APPETITE, JAUNDICE (YELLOWISH SKIN COLOR) AND SOMETIMES PAIN IN THE UPPER ABDOMEN ON THE RIGHT SIDE.

**AGGRAVATED MEDICAL CONDITIONS:**

PREEXISTING SKIN, EYE, AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. IMPAIRED KIDNEY AND LIVER FUNCTIONS FROM PREEXISTING DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

**OTHER HEALTH EFFECTS:**

INTENTIONAL ABUSE, MISUSE OR OTHER MASSIVE EXPOSURE MAY CAUSE MULTIPLE ORGAN DAMAGE AND/OR DEATH.

FOR A SPANISH TRANSLATION OF THIS MSDS, CALL 1-800-240-MSDS.

**SECTION IV**

**OCCUPATIONAL EXPOSURE LIMITS**

COMP NO.	OSHA PEL/TWA	PEL/CEILING	ACGIH TLV/TWA	TLV/STEL	OTHER
1		50 PPM	39.4 PPM*		

\* CEILING (AEROSOL)

**SECTION V**

**EMERGENCY AND FIRST AID PROCEDURES**

**EYE CONTACT:** IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

**SKIN CONTACT:** FLUSH SKIN WITH WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.

**INHALATION:** REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION.

**INGESTION:** DO NOT GIVE LIQUIDS IF VICTIM IS UNCONSCIOUS OR VERY DROWSY. OTHERWISE, GIVE NO MORE THAN 2 GLASSES OF WATER AND INDUCE VOMITING BY GIVING 30CC (2 TABLESPOONS) SYRUP OF IPECAC.\* IF IPECAC IS UNAVAILABLE, GIVE 2 GLASSES OF WATER AND INDUCE VOMITING BY TOUCHING FINGER TO BACK OF VICTIM'S THROAT. KEEP VICTIM'S HEAD BELOW HIPS WHILE VOMITING. GET MEDICAL ATTENTION.

**NOTE TO PHYSICIAN:** \*IF VICTIM IS A CHILD, GIVE NO MORE THAN 1 GLASS OF WATER

AND 15CC (1 TABLESPOON) SYRUP OF IPECAC. IF SYMPTOMS SUCH AS LOSS OF GAG REFLEX, CONVULSIONS OR UNCONSCIOUSNESS OCCUR BEFORE EMESIS, GASTRIC LAVAGE SHOULD BE CONSIDERED FOLLOWING INTUBATION WITH A CUFFED ENDOTRACHEAL TUBE.

## SECTION VI

## SUPPLEMENTAL HEALTH INFORMATION

RARE CASE REPORTS OF ETHYLENE GLYCOL SENSITIZATION (ALLERGY) HAVE BEEN PUBLISHED BUT ALLERGY TO ETHYLENE GLYCOL IS NOT A COMMON PHENOMENON.

IN ONE STUDY, WHEN ETHYLENE GLYCOL WAS ADMINISTERED IN THE DIET AT DAILY DOSES UP TO 1.0 G/KG TO PREGNANT RATS, NO MATERNAL TOXICITY, NO EMBRYOTOXICITY NOR TERATOGENICITY WERE OBSERVED. IN A MORE RECENT STUDY, WHEN ETHYLENE GLYCOL WAS ADMINISTERED BY GAVAGE AT DAILY DOSES OF 1.25 G/KG AND ABOVE TO PREGNANT RATS, OR AT 750 MG/KG AND ABOVE TO PREGNANT MICE, THERE WAS AN INCREASE IN THE NUMBER OF MALFORMED FETUSES AT ALL DOSE LEVELS. EXCEPT AT THE LOWEST DOSE LEVEL IN MICE, THERE WAS ALSO EVIDENCE OF MATERNAL TOXICITY AT ALL DOSE LEVELS.

IN ONE STUDY, DIETHYLENE GLYCOL ADMINISTERED ORALLY AT HIGH DOSES TO PREGNANT RATS AND MICE CAUSED TOXICITY TO THE EMBRYOFETUS INCLUDING DECREASED FETAL BODY WEIGHTS AND INCREASED VARIATIONS, BUT NO BIRTH DEFECTS WERE OBSERVED. THERE WAS ALSO MATERNAL TOXICITY INCLUDING SOME LETHALITY.

IN ANOTHER STUDY, DIETHYLENE GLYCOL ADMINISTERED TO HAMSTERS BY I.P. INJECTION AT DOSES OF 2.5 - 4.48 G/KG ON THE 8TH DAY OF GESTATION RESULTED IN NEURAL TUBE ABNORMALITIES IN ALL DOSE GROUPS BUT NOT IN THE CONTROLS. THERE WAS EVIDENCE OF MATERNAL TOXICITY IN TREATED ANIMALS. UNDER THE CONDITIONS OF THIS STUDY, DEG CAUSED DEVELOPMENTAL EFFECTS IN HAMSTERS. THE SIGNIFICANCE OF THIS INFORMATION TO MAN IS UNKNOWN.

## SECTION VII

## PHYSICAL DATA

BOILING POINT (DEG F): 330-340      SPECIFIC GRAVITY (H2O = 1): 1.1373      VAPOR PRESSURE (MM HG): 12 N/AV

MELTING POINT (DEG F): N/AV      SOLUBILITY IN WATER: COMPLETE      VAPOR DENSITY (AIR = 1): >1

POUR POINT =  
-40 DEG. F

EVAPORATION RATE (NORMAL BUTYL ACETATE = 1): <0.01

APPEARANCE AND ODOR: COLORLESS TO GREEN, SLIGHTLY VISCOUS LIQUID. MILD ODOR.  
PHYS/CHEM PROPERTIES: SEE ABOVE FOR DETAILS

## SECTION VIII

## FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD 246 DEG. F SETAFLASH

FLAMMABLE LIMITS/PERCENT VOLUME IN AIR: LOWER: N/AP HIGHER: N/AP

**EXTINGUISHING MEDIA:**

USE WATER FOG, "ALCOHOL" FOAM, DRY CHEMICAL OR CO2.

USE WATER FOG, FOAM, DRY CHEMICAL OR CO2. DO NOT USE A DIRECT STREAM OF WATER. PRODUCT WILL FLOAT AND CAN BE REIGNITED ON SURFACE OF WATER.

**SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:**

MATERIAL WILL NOT BURN UNLESS PREHEATED. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS), INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

NONE IDENTIFIED

**SECTION IX****REACTIVITY**

**STABILITY:** HAZARDOUS POLYMERIZATION WILL NOT OCCUR

**CONDITIONS AND MATERIALS TO AVOID:**

KEEP AWAY FROM STRONG OXIDIZING AGENTS.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

**SECTION X****EMPLOYEE PROTECTION****RESPIRATORY PROTECTION:**

IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS (SEC. IV) USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910.134 USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

**PROTECTIVE CLOTHING:**

AVOID CONTACT WITH EYES. WEAR CHEMICAL GOGGLES IF THERE IS LIKELIHOOD OF CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. WEAR CHEMICAL RESISTANT GLOVES AND OTHER CLOTHING AS REQUIRED TO MINIMIZE CONTACT. TEST DATA FROM PUBLISHED LITERATURE AND/OR GLOVE AND CLOTHING MANUFACTURERS INDICATE THE BEST PROTECTION IS PROVIDED BY NITRILE, NEOPRENE, PVC OR NATURAL RUBBER GLOVES.

**ADDITIONAL PROTECTIVE MEASURES**

USE VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS. EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR EMERGENCY USE.

**SECTION XI****EMPLOYEE PROTECTION****SPILL OR LEAK PROCEDURES:**

MAY BURN ALTHOUGH NOT READILY IGNITABLE. USE CAUTIOUS JUDGMENT WHEN CLEANING UP LARGE SPILLS. \*\*\* LARGE SPILLS \*\*\* WEAR RESPIRATOR AND PROTECTIVE CLOTHING AS APPROPRIATE. SHUT OFF SOURCE OF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL; DISPOSE OF PROPERLY. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE. \*\*\* SMALL SPILLS \*\*\* TAKE UP WITH AN ABSORBENT MATERIAL AND DISPOSE OF PROPERLY.

**SECTION XII****SPECIAL PRECAUTIONS**

STORE IN A COOL, DRY PLACE WITH ADEQUATE VENTILATION. KEEP AWAY FROM FLAMES AND HIGH TEMPERATURES.

WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

**SECTION XIII****TRANSPORTATION REQUIREMENTS**

DEPARTMENT OF TRANSPORTATION CLASSIFICATION:  
CLASS 9 (OTHER REGULATED SUBSTANCES), III

DOT PROPER SHIPPING NAME: OTHER REGULATED SUBSTANCES, LIQUID, N.O.S. (CONTAINS ETHYLENE GLYCOL)

OTHER REQUIREMENTS: NA3082, GUIDE 171. REGULATED ONLY IN PACKAGES THAT CONTAIN 5000 LBS. OR GREATER OF ETHYLENE GLYCOL.

**SECTION XIV****OTHER REGULATORY CONTROLS**

THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL SUBSTANCES.

PROTECTION OF STRATOSPHERIC OZONE (PURSUANT TO SECTION 611 OF THE CLEAN AIR ACT AMENDMENTS OF 1990): PER 40 CFR PART 82, THIS PRODUCT DOES NOT CONTAIN NOR WAS IT DIRECTLY MANUFACTURED WITH ANY CLASS I OR CLASS II OZONE DEPLETING SUBSTANCES.

IN ACCORDANCE WITH SARA TITLE III, SECTION 313, THE ATTACHED ENVIRONMENTAL DATA SHEET (EDS) SHOULD ALWAYS BE COPIED AND SENT WITH THE MSDS.

**SECTION XV****STATE REGULATORY INFORMATION**

THE FOLLOWING CHEMICALS ARE SPECIFICALLY LISTED BY INDIVIDUAL STATES; OTHER PRODUCT SPECIFIC HEALTH AND SAFETY DATA IN OTHER SECTIONS OF THE MSDS MAY ALSO BE APPLICABLE FOR STATE REQUIREMENTS. FOR DETAILS ON YOUR REGULATORY REQUIREMENTS, YOU SHOULD CONTACT THE APPROPRIATE AGENCY IN YOUR STATE.

STATE LISTED COMPONENT	CAS NO	PERCENT	STATE CODE
ETHYLENE GLYCOL	107-21-1	84-94	CA, CT, FL, IL, LA, MA, ME, MN, NJ, PA, RI
DIETHYLENE GLYCOL	111-46-6	0-10	CA, MN, PA, RI

CA = CALIFORNIA HAZ. SUBST. LIST; CA65C, CA65R, CA65C/R = CALIFORNIA SAFE DRINKING WATER AND TOXICS ENFORCEMENT ACT OF 1986 OR PROPOSITION 65 LIST; CT = CONNECTICUT TOX. SUBST. LIST; FL = FLORIDA SUBST. LIST; IL = ILLINOIS TOX.

SUBST. LIST; LA = LOUISIANA HAZ. SUBST. LIST; MA = MASSACHUSETTS SUBST. LIST;  
ME = MAINE HAZ. SUBST. LIST; MN = MINNESOTA HAZ. SUBST. LIST; NJ = NEW JERSEY  
HAZ. SUBST. LIST; PA = PENNSYLVANIA HAZ. SUBST. LIST; RI = RHODE ISLAND HAZ.  
SUBST. LIST.

**SECTION XVI****SPECIAL NOTES**

THIS MSDS REVISION HAS CHANGES IN SECTIONS IV, XIII AND EDS SECTION III. A  
SPANISH TRANSLATION OF THIS MSDS MAY BE OBTAINED BY CALLING 1-800-240-MSDS.

THE INFORMATION CONTAINED IN THIS DATA SHEET IS BASED ON THE DATA AVAILABLE  
TO US AT THIS TIME, AND IS BELIEVED TO BE ACCURATE BASED UPON THAT DATA. IT  
IS PROVIDED INDEPENDENTLY OF ANY SALE OF THE PRODUCT, FOR PURPOSE OF HAZARD  
COMMUNICATION. IT IS NOT INTENDED TO CONSTITUTE PRODUCT PERFORMANCE  
INFORMATION, AND NO EXPRESS OR IMPLIED WARRANTY OF ANY KIND IS MADE WITH  
RESPECT TO THE PRODUCT, UNDERLYING DATA OR THE INFORMATION CONTAINED HEREIN.  
YOU ARE URGED TO OBTAIN DATA SHEETS FOR ALL PRODUCTS YOU BUY, PROCESS USE OR  
DISTRIBUTE, AND ARE ENCOURAGED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH  
SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN.

TO DETERMINE THE APPLICABILITY OR EFFECT OF ANY LAW OR REGULATION WITH RESPECT  
TO THE PRODUCT, YOU SHOULD CONSULT WITH YOUR LEGAL ADVISOR OR THE APPROPRIATE  
GOVERNMENT AGENCY. WE WILL NOT PROVIDE ADVICE ON SUCH MATTERS, OR BE  
RESPONSIBLE FOR ANY INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN. THE  
UNDERLYING DATA, AND THE INFORMATION PROVIDED HEREIN AS A RESULT OF THAT DATA,  
IS THE PROPERTY OF EQUIVA SERVICES, LLC AND IS NOT TO BE THE SUBJECT OF SALE  
OR EXCHANGE WITHOUT THE EXPRESS WRITTEN CONSENT OF EQUIVA SERVICES, LLC.



## ENVIRONMENTAL DATA SHEET

EQUILON EDS: 80070E

### SHELLZONE(R) ALL SEASON ANTI-FREEZE ANTI-BOIL PROTECTION

**TELEPHONE NUMBER:**

24 HOUR EMERGENCY ASSISTANCE

EQUIVA SERVICES: 877-276-7283

CHEMTREC: 800-424-9300

GENERAL MSDS ASSISTANCE

877-276-7285

**NAME AND ADDRESS**

EQUILON ENTERPRISES

PRODUCT STEWARDSHIP

P.O. BOX 674414

HOUSTON, TX 77267-4414

PRODUCT CODE: 94010

**SECTION I****PRODUCT COMPOSITION****NO. COMPOSITION****CAS NO.****PERCENT**

P SHELLZONE(R) ALL SEASON ANTI-FREEZE ANTI MIXTURE 100

-BOIL PROTECTION		
1	ETHYLENE GLYCOL	107-21-1 84-94
2	DIETHYLENE GLYCOL	111-46-6 0-10
3	WATER	7732-18-5 2-4
4	INORGANIC/ORGANIC SALTS	2-4

NEPA HAZARD RATING: HEALTH 1 FIRE 1 REACTIVITY 0

**SECTION II****SARA TITLE III INFORMATION**

NO. EHS RQ EHS TFQ SEC-313 313 CATEGORY 311/312 CATEGORY

F H-1, H-2  
1 YES

- \*1 = REPORTABLE QUANTITY OF EXTREMELY HAZARDOUS SUBSTANCE, SEC 302
- \*2 = THRESHOLD PLANNING QUANTITY, EXTREMELY HAZARDOUS SUBSTANCE, SEC 302
- \*3 = TOXIC CHEMICAL, SEC 313
- \*4 = CATEGORY AS REQUIRED BY SEC 313 (40 CFR 372.65 C), MUST BE USED ON TOXIC RELEASE INVENTORY FORM
- \*5 = CATEGORY (FOR AGGREGATE REPORTING REQUIREMENTS UNDER SARA 311, 312)
  - HEALTH: H-1 = IMMEDIATE (ACUTE) HEALTH HAZARD
  - H-2 = DELAYED (CHRONIC) HEALTH HAZARD
  - PHYSICAL: P-3 = FIRE HAZARD
  - P-4 = SUDDEN RELEASE OF PRESSURE HAZARD
  - P-5 = REACTIVE HAZARD

**SECTION III****ENVIRONMENTAL RELEASE INFORMATION**

EPA - COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT. UNDER EPA-CERCLA ("SUPERFUND") RELEASES TO AIR, LAND OR WATER WHICH EXCEED THE REPORTABLE QUANTITY MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER, 800-424-8802.

THE REPORTABLE QUANTITY (RQ) FOR A RELEASE OF THIS PRODUCT IS 5,319 LBS., WHICH IS BASED ON THE PRESENCE OF COMPONENT #1.

**SECTION IV****RCRA INFORMATION**

PLACE IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE WITH LOCAL REGULATIONS.

THE INFORMATION CONTAINED IN THIS DATA SHEET IS BASED ON THE DATA AVAILABLE TO US AT THIS TIME, AND IS BELIEVED TO BE ACCURATE BASED UPON THAT DATA. IT IS PROVIDED INDEPENDENTLY OF ANY SALE OF THE PRODUCT, FOR PURPOSE OF HAZARD COMMUNICATION. IT IS NOT INTENDED TO CONSTITUTE PRODUCT PERFORMANCE INFORMATION, AND NO EXPRESS OR IMPLIED WARRANTY OF ANY KIND IS MADE WITH RESPECT TO THE PRODUCT, UNDERLYING DATA OR THE INFORMATION CONTAINED HEREIN. YOU ARE URGED TO OBTAIN DATA SHEETS FOR ALL PRODUCTS YOU BUY, PROCESS USE OR DISTRIBUTE, AND ARE ENCOURAGED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN.

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IS THE PROPERTY OF EQUIVA SERVICES, LLC AND IS NOT TO BE THE SUBJECT OF SALE OR EXCHANGE WITHOUT THE EXPRESS WRITTEN CONSENT OF EQUIVA SERVICES, LLC.

KAREN G. HAYNES

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EQUIVA SERVICES LLC

P.O. BOX 674414

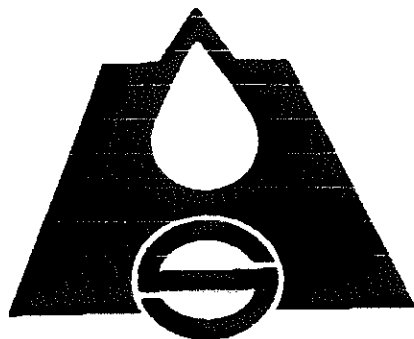
HOUSTON, TX 77267-4414

FOR ADDITIONAL INFORMATION ON THIS ENVIRONMENTAL DATA PLEASE CALL  
(877) 276-7285

FOR EMERGENCY ASSISTANCE PLEASE CALL

EQUIVA SERVICES LLC: (877) 276-7283

CHEMTREC: (800) 424-9300



# MATERIAL SAFETY DATA SHEET

## ALLIED OIL & SUPPLY, INC.

2209 S. 24th Street  
Omaha, NE 68108  
402-344-4343  
800-333-3717  
FAX: 402-344-4360

IDENTITY (As used on label and list):

**ALLIED TRANSMISSION FLUID SAE 50W**

PRODUCT CODE: **PL50LZBU**

### NFPA Hazard Identification

0 - Least  
Health: 0 1 - Slight  
Fire: 1 2 - Moderate  
Reactivity: 0 3 - High  
4 - Extreme

### Section I: General Information

WPP

Council Bluffs, IA 51501

Emergency (402) 344-4343

Chemtrec (800) 424-9300

Revised: 05-11-98

### Section II: Hazardous Ingredients

COMPONENT NAME	% CAS	OSHA PEL
Lubricating Oil Base Stock	>88	ACGIH TLV 64742-54-7 5mg/m3*
Proprietary additives	<12 mixture	5mg/m3*

\* numbers are for oil mist

### Section III: Physical/Chemical Characteristics

Boiling Point (deg F): n/a  
Specific Gravity (H<sub>2</sub>O=1): .893  
Vapor Pressure (mm Hg): n/a  
Melting Point (deg F): -15  
Vapor Density (Air=1): n/a  
Solubility in Water : insoluble  
Evaporation Rate (n-butyl Acetate=1): n/a

APPEARANCE AND ODOR: dark brown liquid,  
petroleum odor

### Section IV: Fire and Explosion Hazard Data

Flash Point (deg F): >430 Method Used: COC

Flammable or Explosive Limits (approximate % by volume in air) LEL: n/a UEL: n/a

EXTINGUISHING MEDIA: Use water spray, dry chemical, foam, or carbon dioxide. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures and to disperse vapors from spills or leaks.

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus may be required.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Do not weld, heat or drill container. Residue may ignite with explosive force if heated sufficiently. Do not use pressure to empty drum or explosion may result.

### Section V: Reactivity Data

STABILITY: This product is stable.  
CONDITIONS TO AVOID: n/a

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Normal combustion forms carbon dioxide and water vapors and may produce oxides of sulfur, nitrogen, and phosphorus. Incomplete combustion can produce carbon monoxide.

HAZARDOUS POLYMERIZATION: will not occur  
CONDITIONS TO AVOID: n/a

### Section VI: Health Hazard Data

EYE CONTACT: Contact with eyes may cause eye irritation.

SKIN CONTACT: Prolonged or repeated contact may result in skin irritation or dermatitis.

**INHALATION:** Breathing oil mist in concentrations that exceed the TLV and PEL may result in respiratory discomfort and irritation.

**INGESTION:** Although this product is not expected to be acutely toxic, aspiration of liquid into the lungs during ingestion or vomiting may cause chemical pneumonitis.

**CARCINOGENICITY:** This product has not been classified as a carcinogen or probable carcinogen by OSHA, NTP, or IARC.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE:** May cause skin, eye, or respiratory irritation.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** none recognized

#### Section VII - First Aid Procedures

**EYE CONTACT:** If splashed into the eyes, flush with water for 15 minutes or until irritation subsides. Get medical attention if irritation persists.

**SKIN CONTACT:** Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists.

**INHALATION:** If overcome by vapor from hot product, immediately remove victim to fresh air. If breathing has stopped, administer artificial respiration. Call for medical attention. If overexposed to oil mist, remove from further exposure.

**INGESTION:** Do NOT induce vomiting; call medical attention immediately.

#### Section VIII - Precautions for Safe Handling and Use

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Add sand, earth, or other suitable absorbent to spill area. Keep product out of sewers and waterways by diking or impounding.

**WASTE DISPOSAL METHOD:** Place in an appropriate disposal facility in compliance with local regulations.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool, dry place with

adequate ventilation. Do not expose to extreme temperature or flames.

**OTHER PRECAUTIONS:** n/a

#### Section IX - Control Measures

**RESPIRATORY PROTECTION:** Use supplied-air respiratory protection in confined or enclosed space, if needed.

**VENTILATION:** Use local exhaust to capture vapor, mist or fume, if necessary. Provide ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air.

**PROTECTIVE GLOVES:** Use neoprene gloves, if needed, to avoid prolonged or repeated skin contact.

**EYE PROTECTION:** Wear goggles if there is likelihood of contact with eye(s).

**OTHER PROTECTIVE EQUIPMENT:** Use neoprene apron or other clothing, if needed, to avoid prolonged or repeated skin contact.

**WORK PRACTICES/ENGINEERING CONTROLS:** Keep containers closed when not in use.

**PERSONAL HYGIENE:** Wash skin thoroughly after contact, before breaks and meals, and at the end of the work period. Thoroughly clean contaminated clothing, including shoes, before re-use.

This material safety data sheet and the information it contains are offered to you in good faith as accurate. We have reviewed any information contained in the data sheet, which we received from sources outside our company and we believe that information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.