



# MATERIAL SAFETY DATA SHEET

MSDS Number: 94070E - 0

24 Hour Emergency Assistance: CHEMTEL (877) 276-7283  
General Assistance Number: (877) 276-7285

## SECTION 1 PRODUCT IDENTIFICATION

**MATERIAL IDENTITY:** SHELL™ DEXCOOL AF/C 50/50

**PRODUCT CODES:** 94070

**COMPANY ADDRESS:** Equilon Enterprises LLC, P. O. Box 4453, Houston, TX. 77210-4453

## SECTION 2 PRODUCT/INGREDIENTS

INGREDIENTS	CAS#	CONCENTRATION
Extended-Life Anti-Freeze Coolant	Mixture	100 %weight
Ethylene Glycol	107-21-1	45 - 55 %weight
Deionized water	7732-18-5	45 - 55 %weight
Potassium 2-Ethylhexanoate	3164-85-0	1 - 3 %weight

## SECTION 3 HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**Appearance & Odor:** Orange liquid

**Health Hazards:** May be harmful or fatal if swallowed. Do not induce vomiting. May cause aspiration pneumonitis. May cause CNS depression.

**NFPA Rating (Health, Fire, Reactivity):** 2, 1, 0

**Hazard Rating:** Least - 0 Slight - 1 Moderate - 2 High - 3 Extreme - 4

### Inhalation:

In applications where vapors (caused by high temperature) or mists (caused by mixing or spraying) are created, breathing may cause a mild burning sensation in the nose, throat and lungs.

### Eye Irritation:

May cause slight irritation of the eyes. If irritation occurs, a temporary burning sensation, minor redness, swelling, and/or blurred vision may result.

### Skin Contact:

May cause slight irritation of the skin. If irritation occurs, a temporary burning sensation and minor redness and/or swelling may result. Other adverse effects not expected from brief skin contact.

### Ingestion:

This material may be harmful or fatal if swallowed. Ingestion may result in vomiting; aspiration (breathing) of vomitus into lungs must be avoided as even small quantities may result in aspiration pneumonitis. Contains ethylene glycol and/or diethylene glycol which are toxic when swallowed. A lethal dose for an adult is 1 ml per kilogram or about 4 ounces (1/2 cup). Severe kidney damage can occur as a result of ingestion. May cause Central Nervous System (CNS) depression.

This material and/or components may cause the following effects:  
Developmental Toxicity

### Primary Target Organs:

The following organs and/or organ systems may be damaged by overexposure to this material and/or its components.

Wear appropriate personal protective equipment when cleaning up spills. Refer to Section 8.

**Spill Management:**

Shut off source of leak if safe to do so. Dike and contain spill.

FOR LARGE SPILLS: Remove with vacuum truck or pump to storage/salvage vessels.

FOR SMALL SPILLS: Soak up residue with an absorbent such as clay, sand or other suitable material. Place in non-leaking container and seal tightly for proper disposal.

**Reporting:**

U.S. regulations require reporting releases of this material to the environment which exceed the reportable quantity to the National Response Center at (800)424-8802.

**SECTION 7 HANDLING AND STORAGE**

**Precautionary Measures:**

Avoid heat, open flames, including pilot lights, and strong oxidizing agents. Use explosion-proof ventilation to prevent vapor accumulation. Ground all handling equipment to prevent sparking. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

**Container Warnings:**

Keep containers closed when not in use. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Chemical	Limit	TWA	STEL	Ceiling	Notation
Ethylene Glycol	ACGIH TLV			100 mg/m3	
Ethylene Glycol	OSHA PEL - 1989(revoked)			50 ppmv	

**Exposure Controls**

Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Eye washes and showers for emergency use.

**Personal Protection**

Personal protective equipment (PPE) selections vary based on potential exposure conditions such as handling practices, concentration and ventilation. Information on the selection of eye, skin and respiratory protection for use with this material is provided below.

**Eye Protection:**

Chemical Goggles - If liquid contact is likely., or Safety glasses with side shields

**Skin Protection:**

Use protective clothing which is chemically resistant to this material. Selection of protective clothing depends on potential exposure conditions and may include gloves, boots, suits and other items. The selection(s) should take into account such factors as job task, type of exposure and durability requirements.

Published literature, test data and/or glove and clothing manufacturers indicate the best protection is provided by: Neoprene, or Nitrile Rubber

**Respiratory Protection:**

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker

processes, etc. may affect the classification. Refer to the latest EPA, state and local regulations regarding proper disposal.

## SECTION 14 TRANSPORT INFORMATION

### US Department of Transportation Classification

This material is not subject to DOT regulations under 49 CFR Parts 171-180. This material is not regulated under 49 CFR if in a container of 119 gallon capacity or less. If shipped in a container of over 119 gallon capacity 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, Packing group III unless the product qualifies for the petroleum exemption (49 CFR 171.8).

**Hazardous Substance/Material RQ:** Ethylene glycol / 10455.8762 lbs

### International Air Transport Association

**Hazard Class/Division:** 9 (Miscellaneous)

**Identification Number:** UN3082

**Packing Group:** III

**Proper Shipping Name:** Environmentally Hazardous Substance, Liquid, N.O.S.

**Technical Name(s):** Ethylene Glycol

### International Maritime Organization Classification

**Hazard Class/Division:** 9 (Miscellaneous)

**Identification Number:** UN3082

**Packing Group:** III

**Proper Shipping Name:** Environmentally Hazardous Substance, Liquid, N.O.S.

**Technical Name(s):** Ethylene Glycol

## SECTION 15 REGULATORY INFORMATION

### Federal Regulatory Status

#### OSHA Classification:

Product is hazardous according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### Comprehensive Environmental Release, Compensation & Liability Act (CERCLA):

Ethylene Glycol

RQ 5000 lbs Reportable Spill => 10455.876202 lbs  
or 1254.15 gal

#### Ozone Depleting Substances (40 CFR 82 Clean Air Act):

This material does not contain nor was it directly manufactured with any Class I or Class II ozone depleting substances.

#### Superfund Amendment & Reauthorization Act (SARA) Title III:

There are no components in this product on the SARA 302 list.

#### SARA Hazard Categories (311/312):

Immediate Health	Delayed Health	Fire	Pressure	Reactivity
YES	NO	NO	NO	NO

#### SARA Toxic Release Inventory (TRI) (313):

Ethylene Glycol

#### Toxic Substances Control Act (TSCA) Status:

All component(s) of this material is(are) listed on the EPA/TSCA Inventory of Chemical Substances.

**Inhalation:** Move victim to fresh air and provide oxygen if breathing is difficult. Get medical attention.

**Skin Contact:** Flush exposed area with water and follow by washing with soap if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.

**Eye Contact:** Flush eyes with plenty of water while holding eyelids open. Rest eyes for 30 minutes. If redness, burning, blurred vision or swelling occur, transport to nearest medical facility for additional treatment.

**Ingestion:** DO NOT take internally. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Get medical attention.

### **FIRE**

**In case of fire,** Use water fog, 'alcohol foam', dry chemical or carbon dioxide (CO2) to extinguish flames. Do not use a direct stream of water.

### **SPILL OR LEAK**

Dike and contain spill.

FOR LARGE SPILLS: Remove with vacuum truck or pump to storage/salvage vessels.

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CONTAINS: Ethylene Glycol, 107-21-1; Deionized water, 7732-18-5; Potassium 2-Ethylhexanoate, 3164-85-0

NFPA Rating (Health, Fire, Reactivity): 2, 1, 0

HMIS Rating (Health, Fire, Reactivity): 2, 1, 0

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**Hazardous Substance/Material RQ:** Ethylene glycol / 10455.8762 lbs

**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 flames or heat. Keep container closed and drum bungs in place.

#### **Name and Address**

Equilon Enterprises LLC  
P. O. Box 4453  
Houston, TX 77210-4453

**TRANSPORTATION EMERGENCY** CHEMTEL (877) 276-7283

**HEALTH EMERGENCY** CHEMTEL (877) 276-7283

#### **ADMINISTRATIVE INFORMATION**

**COMPANY ADDRESS:** Equilon Enterprises LLC, P. O. Box 4453, Houston, TX. 77210-4453

**Company Product Stewardship & Regulatory Compliance Contact:** Timothy W Childs

**Phone Number:** (281) 874-7708

**MSDS FAX-BACK Phone Number:** (877) 276-7285

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