



# Universal HD Extended Life 50/50 Antifreeze

## Safety Data Sheet

Date of issue: 05-14-15

Version A

Universal Oil SDS No: 16 42 10 A

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture

Product name. : Universal HD Extended Life 50/50 Antifreeze

Synonyms

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Antifreeze.

Uses advised against : See Section 16.

#### 1.3. Details of the supplier of the safety data sheet

Universal Oil  
265 Jefferson Ave.  
Cleveland, OH 44113  
T 1-216-771-4300 - F 1-216-771-1845  
[sales@universaloil.com](mailto:sales@universaloil.com) - [www.universaloil.com](http://www.universaloil.com)

#### 1.4. Emergency telephone number

Emergency number : 1-800-424-9300  
CHEMTREC (24 HOURS)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Acute Tox. 4 (Oral) H302  
Repr. 2 H361  
STOT RE 2 H373

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07

GHS08

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H302 - Harmful if swallowed  
H361 - Suspected of damaging fertility or the unborn child  
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P260 - Do not breathe mist/vapours/spray  
P264 - Wash hands thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P301+P312 - If swallowed, call a doctor if you feel unwell  
P308+P313 - IF exposed or concerned: Get medical advice/attention  
P314 - Get medical advice and attention if you feel unwell  
P330 - If swallowed, rinse mouth  
P405 - Store locked up  
P501 - Dispose of contents/container in accordance with local and national regulations

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS-US)

0.1 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist)).

# Universal HD Extended Life 50/50 Antifreeze

## Safety Data Sheet

5-14-15 Version A SDS 16 42 10 A

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixture

Components with health hazards above the applicable thresholds are shown. Exact concentrations withheld as trade secret.

Full text of H-phrases: see section 16

Name	Product identifier	%	GHS-US classification
Ethylene glycol	(CAS No) 107-21-1	45 – 60	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
sodium 2-ethylhexanoate	(CAS No) 19766-89-3	1 – 3	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Repr. 2, H361
Diethylene glycol	(CAS No) 111-46-6	0 – 2	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
Sodium hydroxide	(CAS No) 1310-73-2	0.1 – 0.5 *	Skin Corr. 1A, H314
sodium tolyltriazole	(CAS No) 64665-57-2	0 – 0.3 *	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 2, H411
sodium nitrite	(CAS No) 7632-00-0	0 – 0.3	Ox. Sol. 3, H272 Acute Tox. 3 (Oral), H301 Aquatic Acute 1, H400
Disodium metasilicate	(CAS No) 6834-92-0	0 – 0.3 *	Skin Corr. 1B, H314 STOT SE 3, H335

\*Note – the above composition varies due to different batch formulations. There are no Corrosive or Irritating components present at any given time whose combined sum would trigger an Irritant or Corrosive classification for the final product.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Wash skin with mild soap and water. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER/doctor/physician if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.
- Symptoms/injuries after inhalation : In high concentrations : Inhalation may cause: irritation, coughing, shortness of breath.
- Symptoms/injuries after skin contact : May cause moderate irritation.
- Symptoms/injuries after eye contact : Direct contact with the eyes is likely irritating.
- Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed.

#### 4.3. Indication of any immediate medical attention and special treatment needed

All treatments should be based on observed signs and symptoms of distress in the patient.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Sand. Water spray.
- Unsuitable extinguishing media : None known.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : No specific fire or explosion hazard.
- Reactivity : No dangerous reactions known.

#### 5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear fire/flame resistant/retardant clothing. Wear a self contained breathing apparatus.

# Universal HD Extended Life 50/50 Antifreeze

## Safety Data Sheet

5-14-15 Version A SDS 16 42 10 A

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid all eyes and skin contact and do not breathe vapour and mist.

##### 6.1.1. For non-emergency personnel

Protective equipment : In case of inadequate ventilation wear respiratory protection.

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment : Absorb and/or contain spill with inert material, then place in suitable container.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Take up in non-combustible absorbent material and shove into container for disposal.

#### 6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist, spray, vapours.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use. Keep only in the original container in a cool well ventilated place.

Incompatible products : Strong oxidizing agents. Strong acids. Strong bases.

Incompatible materials : Heat sources. Direct sunlight.

#### 7.3. Specific end use(s)

Antifreeze. Coolant.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

All exposure limits determined for this product are shown.

Ethylene glycol (107-21-1)		
USA ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
USA ACGIH	ACGIH Ceiling (ppm)	39.4 ppm
USA ACGIH	Remark (ACGIH)	URT & eye irr
sodium nitrite (7632-00-0)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> as dust
Sodium hydroxide (1310-73-2)		
USA ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
USA ACGIH	Remark (ACGIH)	URT, eye, & skin irr
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>

#### 8.2. Exposure controls

Appropriate engineering controls : Avoid creating mist or spray. Avoid splashing. Either local exhaust or general room ventilation is usually required.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : It is a good industrial hygiene practice to minimize skin contact. Wear suitable gloves resistant to chemical penetration. nitrile rubber gloves.

# Universal HD Extended Life 50/50 Antifreeze

## Safety Data Sheet

5-14-15 Version A SDS 16 42 10 A

Eye protection	: In case of splashing or aerosol production: protective goggles.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Use an approved respirator equipped with oil/mist cartridges.
Consumer exposure controls	: Avoid contact during pregnancy/while nursing.
Other information	: Do not eat, drink or smoke when using this product.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Free & clear.
Colour	: Red. Green.
Odour	: No data available
Odour threshold	: No data available
pH	: 8.2 – 8.8
Relative evaporation rate (butylacetate=1)	: No data available
Melting / Freezing point	: -40 - -36.4 °C
Boiling point	: > 107 °C
Flash point	: Not measurable
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Specific Gravity @ 20 °C	: 1.074
Density	: 8.972 @ 15.6 °C
Solubility	: No data available
Log Pow	: No data available
Viscosity	: No data available
Explosive limits	: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reactions known.

#### 10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Avoid excessive heat or cold. Keep away from sources of ignition.

#### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

#### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

Universal HD Extended Life 50/50 Antifreeze	
ATE (oral)	500.000 mg/kg bodyweight
Ethylene glycol (107-21-1)	
LD50 oral rat	7712 mg/kg

# Universal HD Extended Life 50/50 Antifreeze

## Safety Data Sheet

5-14-15 Version A SDS 16 42 10 A

<b>Ethylene glycol (107-21-1)</b>	
LD50 dermal rat	> 3500 mg/kg mouse
LC50 inhalation rat (mg/l)	> 2.5 mg/l/4h
ATE (oral)	500.000 mg/kg bodyweight

<b>Diethylene glycol (111-46-6)</b>	
LD50 oral rat	19600 mg/kg
LD50 dermal rat	13300 mg/kg
LC50 inhalation rat (mg/l)	> 4.6 mg/l/4h
ATE (oral)	500.000 mg/kg bodyweight
ATE (dermal)	13300.000 mg/kg bodyweight

<b>sodium nitrite (7632-00-0)</b>	
LD50 oral rat	180 mg/kg
ATE (oral)	180.000 mg/kg bodyweight

<b>sodium tolyltriazole (64665-57-2)</b>	
LD50 oral rat	735 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg bodyweight
ATE (oral)	735.000 mg/kg bodyweight

<b>Disodium metasilicate (6834-92-0)</b>	
LD50 oral rat	1250 ml/kg

Skin corrosion/irritation	: Not classified.
Serious eye damage/irritation	: Not classified.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: May cause damage to organs through prolonged or repeated exposure.

<b>Ethylene glycol (107-21-1)</b>	
NOAEL (oral,rat,90 days)	150 mg/kg bodyweight/day kidney

Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: In high concentrations : Inhalation may cause: irritation, coughing, shortness of breath.
Symptoms/injuries after skin contact	: May cause moderate irritation.
Symptoms/injuries after eye contact	: Direct contact with the eyes is likely irritating.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed.
Likely routes of exposure	: Skin and eyes contact.;Inhalation

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>Ethylene glycol (107-21-1)</b>	
LC50 fishes 1	72860 mg/l Pimephales promelas
EC50 Daphnia 1	> 100 mg/l
NOEC chronic fish	15380 mg/l Pimephales promelas
NOEC chronic crustacea	8590 mg/l Ceriodaphnia sp.

<b>Diethylene glycol (111-46-6)</b>	
LC50 fishes 1	75200 mg/l
EC50 Daphnia 1	> 10000 mg/l

<b>sodium nitrite (7632-00-0)</b>	
LC50 fishes 1	0.11 mg/l

<b>sodium tolyltriazole (64665-57-2)</b>	
LC50 fishes 1	55 mg/l
EC50 Daphnia 1	15.8 mg/l

# Universal HD Extended Life 50/50 Antifreeze

## Safety Data Sheet

5-14-15 Version A SDS 16 42 10 A

<b>sodium 2-ethylhexanoate (19766-89-3)</b>	
LC50 fishes 1	> 100 mg/l 96 h

<b>Disodium metasilicate (6834-92-0)</b>	
LC50 fishes 1	2320 mg/l Gambusia affinis
EC50 Daphnia 1	1700 mg/l
LC50 fish 2	210 mg/l Brachydanio rerio

### 12.2. Persistence and degradability

<b>Ethylene glycol (107-21-1)</b>	
Persistence and degradability	Readily biodegradable.

<b>Diethylene glycol (111-46-6)</b>	
Persistence and degradability	Readily biodegradable.

<b>sodium tolyltriazole (64665-57-2)</b>	
Biodegradation	4 % O2 consumption; 28 days

### 12.3. Bioaccumulative potential

<b>Ethylene glycol (107-21-1)</b>	
Log Pow	- 1.36
Bioaccumulative potential	Not expected to bioaccumulate.

<b>Diethylene glycol (111-46-6)</b>	
Bioconcentration factor (BCF REACH)	100
Log Pow	-1.98
Bioaccumulative potential	Not expected to bioaccumulate.

<b>sodium tolyltriazole (64665-57-2)</b>	
Log Pow	1.083

<b>sodium 2-ethylhexanoate (19766-89-3)</b>	
Log Pow	1.3

<b>Disodium metasilicate (6834-92-0)</b>	
Bioaccumulative potential	Not expected to bioaccumulate.

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.  
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

## SECTION 14: Transport information

In accordance with DOT  
Not considered a dangerous good for transport regulations

### Additional information

Other information : No supplementary information available.

### ADR

Transport document description : Not applicable

### Transport by sea

No additional information available

### Air transport

No additional information available

# Universal HD Extended Life 50/50 Antifreeze

## Safety Data Sheet

5-14-15 Version A SDS 16 42 10 A

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

<b>Ethylene glycol (107-21-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	5000 lb
SARA Section 313 - Emission Reporting	>95%

<b>Diethylene glycol (111-46-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

<b>sodium nitrite (7632-00-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

<b>Sodium hydroxide (1310-73-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	1000 lb

<b>sodium tolyltriazole (64665-57-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

<b>sodium 2-ethylhexanoate (19766-89-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

<b>Disodium metasilicate (6834-92-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
SARA Section 311/312 Hazard Classes	Not listed on SARA Section 313 (Specific toxic chemical listings)

#### 15.2. International regulations

##### CANADA

<b>Universal HD Extended Life 50/50 Antifreeze</b>	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

<b>Ethylene glycol (107-21-1)</b>	
Listed on the Canadian DSL (Domestic Substances List) inventory.	

<b>Diethylene glycol (111-46-6)</b>	
Listed on the Canadian DSL (Domestic Substances List) inventory.	

<b>sodium nitrite (7632-00-0)</b>	
Listed on the Canadian DSL (Domestic Substances List) inventory.	

<b>Sodium hydroxide (1310-73-2)</b>	
Listed on the Canadian DSL (Domestic Substances List) inventory.	

<b>sodium tolyltriazole (64665-57-2)</b>	
Listed on the Canadian DSL (Domestic Substances List) inventory.	

<b>sodium 2-ethylhexanoate (19766-89-3)</b>	
Listed on the Canadian DSL (Domestic Substances List) inventory.	

<b>Disodium metasilicate (6834-92-0)</b>	
Listed on the Canadian DSL (Domestic Substances List) inventory.	

##### EU-Regulations

<b>Ethylene glycol (107-21-1)</b>	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.	

<b>Diethylene glycol (111-46-6)</b>	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.	

# Universal HD Extended Life 50/50 Antifreeze

## Safety Data Sheet

5-14-15 Version A SDS 16 42 10 A

### **sodium nitrite (7632-00-0)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

### **Sodium hydroxide (1310-73-2)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

### **sodium tolyltriazole (64665-57-2)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

### **sodium 2-ethylhexanoate (19766-89-3)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

### **Disodium metasilicate (6834-92-0)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

#### **Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Acute Tox. 4 (Oral) H302

Repr. 2 H361

STOT RE 2 H373

Full text of H-phrases: see section 16

#### **Classification according to Directive 67/548/EEC or 1999/45/EC**

Xn; R22

#### **15.2.2. National regulations**

##### **Ethylene glycol (107-21-1)**

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.

Listed on the AICS (the Australian Inventory of Chemical Substances).

Listed on Taiwan National Chemical Inventory

Listed on New Zealand - Inventory of Chemicals (NZIoC)

Listed on KECI (Chemical Inventory of Korea)

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on Inventory of Chemicals and Chemical Substances (PICCS)

##### **Diethylene glycol (111-46-6)**

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.

Listed on the AICS (the Australian Inventory of Chemical Substances).

Listed on Taiwan National Chemical Inventory

Listed on New Zealand - Inventory of Chemicals (NZIoC)

Listed on KECI (Chemical Inventory of Korea)

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on Inventory of Chemicals and Chemical Substances (PICCS)

##### **sodium nitrite (7632-00-0)**

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on Taiwan National Chemical Inventory

Listed on KECI (Chemical Inventory of Korea)

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.

Listed on Inventory of Chemicals and Chemical Substances (PICCS)

Listed on New Zealand - Inventory of Chemicals (NZIoC)

Listed on the AICS (the Australian Inventory of Chemical Substances).

Listed on the Chinese Catalog of Hazardous Chemicals.

##### **Sodium hydroxide (1310-73-2)**

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on the Chinese Catalog of Hazardous Chemicals.

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.

Listed on KECI (Chemical Inventory of Korea)

Listed on Taiwan National Chemical Inventory

Listed on Inventory of Chemicals and Chemical Substances (PICCS)

Listed on the AICS (the Australian Inventory of Chemical Substances).

Listed on New Zealand - Inventory of Chemicals (NZIoC)



# Universal HD Extended Life 50/50 Antifreeze

## Safety Data Sheet

5-14-15 Version A SDS 16 42 10 A

### sodium tolyltriazole (64665-57-2)

Listed on Inventory of Existing Chemical Substances (IECSC)  
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.  
Listed on KECI (Chemical Inventory of Korea)  
Listed on Taiwan National Chemical Inventory  
Listed on Inventory of Chemicals and Chemical Substances (PICCS)  
Listed on New Zealand - Inventory of Chemicals (NZIoC)  
Listed on the AICS (the Australian Inventory of Chemical Substances).

### sodium 2-ethylhexanoate (19766-89-3)

Listed on Inventory of Chemicals and Chemical Substances (PICCS)  
Listed on Inventory of Existing Chemical Substances (IECSC)  
Listed on KECI (Chemical Inventory of Korea)  
Listed on New Zealand - Inventory of Chemicals (NZIoC)  
Listed on Taiwan National Chemical Inventory  
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.  
Not listed on the AICS (the Australian Inventory of Chemical Substances).

### Disodium metasilicate (6834-92-0)

Listed on New Zealand - Inventory of Chemicals (NZIoC)  
Listed on KECI (Chemical Inventory of Korea)  
Water hazard class (WGK)  
Listed on Taiwan National Chemical Inventory  
Listed on Inventory of Existing Chemical Substances (IECSC)  
Listed on the Chinese Catalog of Hazardous Chemicals.  
Listed on the AICS (the Australian Inventory of Chemical Substances).  
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.  
Listed on Inventory of Chemicals and Chemical Substances (PICCS)

### 15.3. US State regulations

No additional information available

## SECTION 16: Other information

### Disclaimer:

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

End-use applications **NOT** supported by Universal Oil for monoethylene glycol, diethylene glycol and triethylene glycol. These limitations include products restricted by law, applications in which may raise unacceptable risks, and other applications which Universal Oil has decided not to, including minimizing unnecessary risk and liabilities to the company. Universal Oil does not knowingly market these products into these non-supported applications. This list is not all-inclusive, and Universal Oil reserves the right to modify the same at any time.

- The use of production of tobacco and in the manufacture of tobacco products (including but not limited to additives, humectants, filters, inks, and paper)
- The use for the generation of artificial smoke / theatrical fogs / mist. This includes applications such as artificial / e-cigarettes.
- The use as ingredient in fuel for warming foods (Sterno™-like application) or in fuel for heating an enclosed space where human exposure is possible.
- The use in fire extinguishing sprinkler systems.
- The use in the manufacture of munitions.
- The use in the production of de-icers for use on roadways, sidewalks and in aircraft lavatories.
- The use as a component of heat transfer fluids in systems where the heat transfer fluids could infiltrate (i.e., via an exchanger leak, backflow prevention failure, or other means) a potable water.
- The use as a non-reacted component in a formulation for direct internal or external human / animal contact, including, but not limited to ingestion, inhalation, and skin contact and in medical / veterinary devices and medial / veterinary. Examples of some such applications are uses as a direct component in foods, beverages, pharmaceuticals, cosmetics, personal care products or children's products.
- The use for consumer or hospital usage for deodorizing or air "purifying" purposes by spraying as an aerosol.
- The use as a non-reacted component in adhesives, plasticizers, and softening agents for packaging having direct contact with food or beverage.
- The use as a non-reacted component in the formulation of glues, pastes, ice / heat packs or other items where the potential for significant human contact and/or ingestion exists (including but not limited to children's school glue/paste or arts/craft glue/paste, toys, children products).
- The use as a fluid for pressure testing piping.

For more information contact your Universal Oil representative.

Indication of changes : Original Document.

# Universal HD Extended Life 50/50 Antifreeze

## Safety Data Sheet

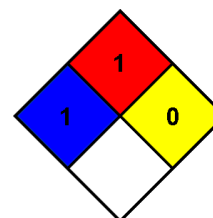
5-14-15 Version A SDS 16 42 10 A

Data sources	: ESIS (European chemical Substances Information System; accessed at: <a href="http://esis.jrc.ec.europa.eu/index.php?PGM=cla">http://esis.jrc.ec.europa.eu/index.php?PGM=cla</a> . ACGIH 2000. European Chemicals Agency (ECHA) Registered Substances list. Accessed at <a href="http://echa.europa.eu/">http://echa.europa.eu/</a> . Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association; Fire Protection Guide to Hazardous Materials; 10th edition. OSHA 29CFR 1910.1200 Hazard Communication Standard. TSCA Chemical Substance Inventory. Accessed at <a href="http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html">http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html</a> .
Abbreviations and acronyms	: ACGIH (American Conference of Government Industrial Hygienists). ATE: Acute Toxicity Estimate. CAS (Chemical Abstracts Service) number. CLP: Classification, Labelling, Packaging. EC50: Environmental Concentration associated with a response by 50% of the test population. GHS: Globally Harmonized System (of Classification and Labeling of Chemicals). LD50: Lethal Dose for 50% of the test population. OSHA: Occupational Safety & Health Administration. STEL: Short Term Exposure Limits. TSCA: Toxic Substances Control Act. TWA: Time Weight Average.
Other information	: None.

Full text of H-phrases: see section 16:

Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Ox. Sol. 3	Oxidising solids Category 3
Repr. 2	Reproductive toxicity Category 2
Skin Corr. 1A	skin corrosion/irritation Category 1A
Skin Corr. 1B	skin corrosion/irritation Category 1B
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H272	May intensify fire; oxidizer
H301	Toxic if swallowed
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and not reactive with water.



# Universal HD Extended Life 50/50 Antifreeze

## Safety Data Sheet

5-14-15 Version A SDS 16 42 10 A

---

**SDS prepared by:** Universal Oil  
265 Jefferson Ave  
Cleveland, OH 44113  
216-771-4300  
[www.universaloil.com](http://www.universaloil.com)