

# SAFETY DATA SHEET

#### SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

# Ultra1Plus™ UltraCool IAT Universal Antifreeze + Coolant PREMIXED 50/50, GREEN

Product form: Mixture

**Product use:** Antifreeze & Coolant **Product number(s):** UAC5050G

Company Identification (Details of the supplier of the safety data sheet):

**Ultrachem LLC** 

1600 Ponce de Leon, STE 1108 Coral Gables, FL. 33134 USA Phone +1 (888) 685-8721 www.ultra1plus.com **U1Dynamics Manufacturing LLC** 

4468 Genoa-Red Bluff Rd. Houston, TX. 77059 USA Phone +1 (786) 953 - 6132

**Transportation Emergency Response** 

CHEMTREC: (800) 424-9300 or (703) 527-3887

# SECTION 2 HAZARDS IDENTIFICATION

#### **GHS-US Classification:**

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

Full text of H statements: see section 16.

#### Label elements:

Hazard pictograms (GHS-US):



GHS07



GHS08

Signal word (GHS-US): Warning

Hazard statements (GHS-US): H302 - Harmful if swallowed

H373 – May cause damage to organs (kidneys) through prolonged or repeated

exposure (oral)

Precautionary statements (GFS-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, spray vapors P264 – Wash affected areas thoroughly after handling.

P270 – Do not eat, drink, or smoke when using this product

P280 – Wear personal protective equipment as required

P301+P310 – If swallowed: Immediately call doctor/physician or poison center

P301+P330+P331-If swallowed: rinse

mouth. Do NOT induce vomiting

P304+P340 – If inhaled: Remove person to fresh air and keep comfortable for breathing P308+P313 – If exposed or concerned: Get medical advice/attention

P405 - Store locked up

P501 – Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations.

# SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

Name	Product Identifier	% by wt	GFS-US Classification
Ethylene glycol	CAS No. 107-21-1	<= 51	Acute Tox. 4 (Oral) H302
Additive and Inhibitors	Trade Secret	< 2.5	Acute Tox. (Oral) H272, H319
Water Deionize	CAS No. 7732-18-5	< 50	Not Classified
Denatonium benzoate (embittering agent)	CAS-No. 3734-33-6	0.003 - 0.005 [30 - 50 ppm]	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
GREEN DYE	-	<1	Not Classified

# SECTION 4 FIRST AID MEASURES

# 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 breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek immediate medical advice. Allow the victim to rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.





First-aid measures after skin

First-aid measures after eye

contact:

contact:

ingestion:

Remove contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin

irritation occurs: Rinse immediately with plenty of water (for at least 15 minutes). Get medical advice/attention. Specific treatment (see supplemental first aid instructions on this label). Remove contact lenses, if present and easy to do. Continue

rinsing. Rinse immediately with plenty of water for 15 minutes, lifting lower and upper lids. If eye irritation persists: Rinse immediately with plenty of water. Get medical advice/attention

immediately with plenty of water. Get medical advice/attention.

First-aid measures after

Obtain emergency medical attention. Rinse mouth. Do NOT

induce vomiting. If the person is fully conscious, make him/her drink two glasses of water. Never give an unconscious person anything to drink. Call a POISON CENTER or doctor/physician if you feel unwell. If medical advice is delayed, and if the person has swallowed a moderate volume of material (a few ounces), then give three to four ounces of hard liquor, such as whiskey. For children, give proportionally less liquor, according to

weight.

# Most important symptoms and effects, both acute and delayed IMMEDIATE HEALTH EFFECTS

Symptoms/injuries: Causes damage to organs (kidneys) Oral.

Symptoms/injuries after skin contact: Causes skin irritation.

Symptoms/injuries after eye contact: Causes serious eye damage.

Symptoms/injuries after ingestion: Swallowing a small quantity of this material

will result in serious health hazard. The lethal dose in humans is estimated to be 100 mL (3

oz).

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

A more effective intravenous antidote for physician uses is 4-methylpyrazaole, a potent inhibitor of alcohol dehydrogenases, which effectively blocks the formation of toxic metabolites of ethylene glycol. It has been used to decrease the metabolic consequences of ethylene glycol poisoning before metabolic acidosis coma, seizures, and renal failure have occurred.

# SECTION 5 FIRE FIGHTING MEASURES

#### 5.1. Extinguishing media:

Suitable extinguishing media: Fine water spray. Alcohol-resistant foam.

Foam. Carbon dioxide. Dry chemical powder.

Sand. Dry powder. Water fog.

Unsuitable extinguishing media: Do not use a heavy water stream. May

spread fire.





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

Fire hazard: During a fire, smoke may contain the original

material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon

monoxide. Carbon dioxide.

Reactivity: No dangerous reactions known under normal

conditions of use.

#### 5.3. Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed

containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water

from entering environment.

Protection during firefighting: Do not enter fire area without proper

protective equipment, including respiratory

protection.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment, and emergency procedure:

For non-emergency personnel:

Emergency procedures: Evacuate unnecessary personnel.

For emergency responders:

Protective equipment: Equip cleanup crew with proper protection.

Refer to section 8.2.

Emergency procedures: Ventilate area.

Environmental precautions: Prevent entry to sewers and public waters. Notify authorities if

liquid enters sewers or public waters.

Methods and material for containment and cleaning up:

Methods for cleaning up: Soak up spills with inert solids, such as clay or

diatomaceous earth as soon as possible. Collect spillage. Store away from other

materials.

Reference to other sections: See Heading 8. Exposure controls and personal protection.





# SECTION 7 HANDLING AND STORAGE

Precautions for safe handling:

Precautions for safe handling: Wash hands and other exposed areas with mild

soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapor.

Hygiene measures: Do not eat, drink, or smoke when using this

product. Wash affected areas thoroughly after

handling.

Conditions for safe storage, including any incompatibilities:

Storage conditions: Keep only in the original container in a cool,

well-ventilated place away from: Heat sources. Keep container closed when not in use. Do not store near food, foodstuffs, drugs or potable water supplies. Do not cut, drill, weld, use a blowtorch on, etc. containers even when empty. Product may become solid at temperatures below -37 °C (-34 °F).

Incompatible products: Keep away from strong acids, strong bases

and oxidizing agents.

Incompatible materials: Sources of ignition.

Specific end use(s): No additional information available

#### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters:**

#### ethylene glycol (107-21-1)

ACGIH TWA (mg/m³) 10 mg/m³

ACGIH Remark (ACGIH) Upper Respiratory Tract (URT) &

Eye irritant

OSHA Not applicable

# **Exposure controls:**

Personal protective equipment: Avoid all unnecessary exposure. Gloves.

Safety glasses.









Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or safety glasses.

Respiratory protection: If exposed to levels above exposure limits

wear appropriate respiratory protection.

Other information: Do not eat, drink or smoke during use.

# SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties:

Physical state: Liquid

Color: Green Odor: Mild

Odor threshold: No data available

pH: 10.5 - 11

Relative evaporation rate (butylacetate=1): Nil

Freezing point: -37 °C (-34 °F) Boiling point: 107 °C (224 °F)

Flash point: 116 °C (241 °F) [100% Ethylene Glycol]

ASTM D56

Auto-ignition temperature: 400 °C (752 °F) [100% Ethylene Glycol]

Literature

Decomposition temperature: No data available Flammability (solid, gas): No data available

Vapor pressure: < 0.1 mm Hg @ 20 °C

Relative vapor density at 20 °C: No data available

Specific Gravity: 1.07

Density: 1.07 kg/l (8.9 lbs/gal)
Solubility: Water: Complete
Log Pow: No data available

Log Know: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosive properties: Not applicable.
Oxidizing properties: Not applicable.

Explosive limits: Not applicable.

Other information:

VOC content: 0.00 %





# SECTION 10 STABILITY AND REACTIVITY

Reactivity: No dangerous reactions known under normal conditions of use.

Chemical Stability: Stable.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Extremely high or low temperatures. Keep away from any flames or

sparking source.

Incompatible materials: Keep away from strong acids, strong bases, and oxidizing agents.

Hazardous decomposition products: Carbon dioxide. Carbon monoxide. Fume. alcohols.

Aldehydes. Ethers.

#### SECTION 11 TOXICOLOGICAL INFORMATION

# Information on toxicological effects:

Acute toxicity: Oral: Harmful if swallowed.

Ethylene glycol (107-21-1)	
LD50 oral rat	> 5,000.00 mg/kg (Rat; Literature study)
ATE US (oral)	500.00 mg/kg bodyweight

Skin corrosion/irritation: Not classified

pH: 10.5 - 11

Serious eye damage/irritation: Not classified

pH: 10.5 - 11

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified productive toxicity: Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity (single Not classified

exposure):

Specific target organ toxicity (repeated May cause damage to organs (kidneys)

exposure): through prolonged or repeated exposure

(oral).

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Not classified

Potential adverse human health effects and Based on available data, the classification

symptoms: criteria are not met. Harmful if swallowed.

Symptoms/injuries after skin contact: Causes skin irritation.

Symptoms/injuries after eye contact: Causes serious eye damage.

Symptoms/injuries after ingestion: Swallowing a small quantity of this material

will result in serious health hazard. The lethal dose in humans is estimated to be 100 mL (3

oz).





# SECTION 12 ECOLOGICAL INFORMATION

# Toxicity:

Ethylene glycol (107-21-1)	
EC50 Daphnia 1	> 10,000.00 mg/l (EC50; 24 h)
LC50 fish 2	40,761.00 mg/l (LC50; 96 h; Salmo gairdneri)

# Persistence and degradability:

Ethylene glycol (107-21-1)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the
	soil.
Biochemical oxygen demand (BOD)	0.47 g O2/g substance
Chemical oxygen demand (COD)	1.24 g O2/g substance
ThOD	1.29 g O2/g substance
BOD (% of ThOD)	0.36

# Bio accumulative potential:

Ethylene glycol (107-21-1)	
BCF fish 1	10.00 (BCF; 72 h)
BCF other aquatic organisms 1	0.21 - 0.6 (BCF)
BCF other aquatic organisms 2	190.00 (BCF; 24 h)
Log Pow	-1.34 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

# Mobility in soil:

Ethylene glycol (107-21-1)		
	Surface tension	0.05 N/m (20 °C / 68 °F)

#### Other adverse effects:

Effect on ozone layer: No known effect on the ozone layer

Effect on global warming: No known ecological damage caused by this

product

Other information: Avoid release to the environment.

# SECTION 13 DISPOSAL CONSIDERATIONS

#### Waste treatment methods:

Waste disposal recommendations: Dispose of contents/container, in a safe

manner, to appropriate waste disposal

facility, in accordance with

local/regional/national/international

regulations.

Ecology - waste materials: Avoid release to the environment.





# **SECTION 14 TRANSPORT INFORMATION**

#### Department of Transportation (DOT): In accordance with DOT

Transport document description: UN3082 Environmentally hazardous

substances, liquid, n.o.s., 9, III

UN-No. (DOT): UN3082

Proper Shipping Name (DOT): Environmentally hazardous substances,

liquid, n.o.s.

Class (DOT): 9 - Class 9 - Miscellaneous hazardous

material 49 CFR 173.140

Hazard labels (DOT): 9 - Class 9 (Miscellaneous dangerous

materials)



Packing group (DOT): III - Minor Danger

DOT Packaging Non-Bulk (49 CFR 173.xxx): 203 DOT Packaging Bulk (49 CFR 173.xxx): 241

DOT Symbols: G - Identifies PSN requiring a technical name

DOT Packaging Exceptions (49 CFR 15

173.xxx)

DOT Quantity Limitations Passenger No limit

aircraft/rail (49 CFR 173.27):

DOT Quantity Limitations Cargo aircraft only No limit

(49 CFR 175.75):

DOT Vessel Stowage Location: A - The material may be stowed "on deck" or

"under deck" on a cargo vessel and on a

passenger vessel

Other information: Non-Bulk: Not regulated by the US D.O.T. (in

quantities under 5,000 lbs in any one inner

package).

**TDG:** Refer to current TDG Canada for further Canadian regulations.

#### Transport by sea:

Proper Shipping Name (IMDG): Not regulated by IMDG (in quantities under

5,000 lbs in any one inner package)

#### Air transport:

Proper Shipping Name (IATA): Not regulated by IATA (in quantities under

5,000 lbs in any one inner package)





# SECTION 15 REGULATORY INFORMATION

# **US Federal regulations:**

Ethylene glycol (107-21-1)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313		
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a	
	Section 4 test rule under TSCA	
CERCLA RQ	5000 lb(s)	
SARA Section 311/312 Hazard	Immediate (acute) health hazard Delayed (chronic)	
Classes	health hazard Ethylene glycol is subject to Tier I	
	and/or Tier II annual inventory reporting	
SARA Section 313 - Emission	Ethylene glycol is subject to Form R Reporting	
Reporting	requirements.	

# International regulations:

#### **CANADA** WHMIS Classification



EU-Regulations: No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]: No additional information available

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]: Not classified.

# US State regulations:

ethylene glycol (107-21-1)				
U.S California	U.S California	U.S California	U.S California	Non-significant
- Proposition 65	- Proposition 65	- Proposition 65	- Proposition 65	risk level
- Carcinogens	- Developmental	- Reproductive	- Reproductive	(NSRL)
List	Toxicity	Toxicity -	Toxicity - Male	, ,
	-	Female	_	
No	Yes	No	No	

# Ethylene glycol (107-21-1)

U.S. - Massachusetts - Right to Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List





# SECTION 16 OTHER INFORMATION

# Full text of H-statements:

H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H373	May cause damage to organs through
	prolonged or repeated exposure

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 are not reactive with water.

**HMIS III Rating** 

Health: 2 Moderate Hazard - Temporary or minor

injury may occur.

Flammability: 1 Slight Hazard - Materials that must be

preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 °F (93 °C). (Class IIIB) 0 Minimal Hazard - Materials that are

Physical:

normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-

Explosives.

Personal Protection: B - Safety glasses, Gloves

SDS GHS US (GHS HazCom 2012) OWI

