



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
US OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada WHMIS  
2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous  
Products Regulation (HPR)

Issuing Date 01-Jun-2021

Revision Date 01-Jun-2021

Revision Number 1

## 1. Identification

### Product identifier

**Product Name** Multi-Vehicle Antifreeze/Coolant - EG 50/50 Premix

### Other means of identification

**Product Code(s)** ACPCAA

**UN/ID no** UN3082

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended use** Coolant

**Restrictions on use** Avoid formation of mists.

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

#### Supplier Address

AMSOIL INC.  
14328-121A Ave  
Edmonton, AB T5L 2T2  
T: 877-830-4769

#### Manufacturer Address

AMSOIL INC.  
One AMSOIL Center  
Superior, WI 54880, USA  
T: +1 715-392-7101

**E-mail** compliance@amsoil.com

### Emergency telephone number

**Emergency telephone** CHEMTREC: Within USA and Canada: 1-800-424-9300  
Outside the USA and Canada: +1 703-741-5970  
(collect calls accepted) 24/7

## 2. Hazard(s) identification

### Classification

Acute toxicity - Oral	Category 4
Specific target organ toxicity (repeated exposure)	Category 2

### Label elements

#### **Warning**

#### **Hazard statements**

Harmful if swallowed.  
May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust, fume, gas, mist, vapors and spray.

**Precautionary Statements - Response**

Get medical advice/attention if you feel unwell.

**Ingestion**

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

**Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant.

**Other information**

No information available.

### 3. Composition/information on ingredients

**Substance**

Chemical name	CAS No	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Ethane-1,2-diol	107-21-1	30-60	-	-

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First-aid measures

**Description of first aid measures****General advice**

Show this safety data sheet to the doctor in attendance.

**Inhalation**

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

**Eye contact**

Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Skin contact**

Wash skin with soap and water. Take off contaminated clothing. Get medical attention if irritation develops and persists.

**Ingestion**

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if you feel unwell.

**Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	Ingestion causes nausea, weakness and central nervous system effects, headache, vomiting, dizziness, symptoms of drunkenness. Acidosis. May cause temporary eye irritation. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization in susceptible persons.
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**Indication of any immediate medical attention and special treatment needed**

<b>Note to physicians</b>	Treat symptomatically.
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**5. Fire-fighting measures**

<b>Suitable Extinguishing Media</b>	Water spray, carbon dioxide (CO <sub>2</sub> ), dry chemical, alcohol-resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	None known based on information supplied.
<b>Specific hazards arising from the chemical</b>	Product may ignite and burn at temperatures exceeding the flash point. Thermal decomposition can lead to release of irritating gases and vapors.
<b>Hazardous combustion products</b>	Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	None.
<b>Sensitivity to static discharge</b>	None.
<b>Special protective equipment and precautions for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.
<b>Other information</b>	Refer to protective measures listed in Sections 7 and 8.
<b>For emergency responders</b>	Use personal protection recommended in Section 8.

**Methods and material for containment and cleaning up**

<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Stop leak if you can do it without risk. Stay upwind. Prevent product from entering drains. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Clean contaminated surface thoroughly. After cleaning, flush away traces with water. Use clean non-sparking tools to collect absorbed material. Dispose of via a licensed waste disposal contractor.
<b>Reference to other sections</b>	For additional information see: Section 8: Exposure controls/personal protection; Section 12: Ecological information; Section 13: Disposal considerations.

**7. Handling and storage****Precautions for safe handling**

<b>Advice on safe handling</b>	Handle in accordance with good industrial hygiene and safety practice. When opening containers, avoid breathing vapors that may be emanating. Avoid contact with skin. Avoid contact with used product. Ensure adequate ventilation. Do not eat, drink or smoke when
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using this product. Take off contaminated clothing and wash before reuse. Wash hands before and after use.

#### **Conditions for safe storage, including any incompatibilities**

##### **Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep out of the reach of children. Keep away from Incompatible materials. Incompatible with oxidizing agents. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep in properly labeled containers. Do not reuse empty containers. Store on a solvent-resistant, sealed floor. Store in accordance with local regulations.

## **8. Exposure controls/personal protection**

#### **Control parameters**

##### **Exposure Limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Chemical name	ACGIH TLV	OSHA PEL		NIOSH
Ethane-1,2-diol 107-21-1	STEL: 50 ppm vapor fraction STEL: 10 mg/m <sup>3</sup> inhalable particulate matter, aerosol only TWA: 25 ppm vapor fraction	(vacated) Ceiling: 50 ppm (vacated) Ceiling: 125 mg/m <sup>3</sup>		-
Chemical name	Alberta	British Columbia	Ontario	Quebec
Ethane-1,2-diol 107-21-1	Ceiling: 100 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup> Ceiling: 100 mg/m <sup>3</sup> Ceiling: 50 ppm	TWA: 25 ppm STEL: 50 ppm STEL: 10 mg/m <sup>3</sup>	Ceiling: 50 ppm Ceiling: 127 mg/m <sup>3</sup>

##### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

#### **Appropriate engineering controls**

##### **Engineering controls**

Ensure adequate ventilation, especially in confined areas.

#### **Individual protection measures, such as personal protective equipment**

##### **Eye/face protection**

If there is a risk of contact: Wear safety glasses with side shields (or goggles).

##### **Hand protection**

If there is a risk of contact: Wear suitable gloves. Nitrile rubber. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.

##### **Skin and body protection**

If there is a risk of contact: Wear suitable protective clothing.

##### **Respiratory protection**

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

##### **General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

## **9. Physical and chemical properties**

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

##### **Appearance**

Physical state	Liquid
Color	Yellow
Odor	Slight sweet
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	7.8 - 9.5	Concentrated solution
Melting point / freezing point	-17-(-52)°C (1 -(-62)°F) (melting); -17-(-52)°C (1 - (-62) °F) (freezing)	No data available
Initial boiling point and boiling range	121 - 132 °C	No data available
Flash point		No data available
Evaporation rate		No data available
Flammability		No data available
Flammability Limit in Air		
Upper flammability or explosive limits		No data available
Lower flammability or explosive limits		No data available
Vapor pressure		No data available
Vapor density		No data available
Relative density	1.05 - 1.12	@20°C
Water solubility		No data available
Solubility(ies)		No data available
Partition coefficient		No data available
Autoignition temperature		No data available
Decomposition temperature		No data available
Kinematic viscosity		No data available
Dynamic viscosity		No data available

**Other information**

Explosive properties	No information available.
Oxidizing properties	No information available.
Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Liquid Density	No information available
Bulk density	No information available

**10. Stability and reactivity**

Reactivity	None under normal use conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Incompatible materials.
Incompatible materials	Incompatible with strong acids and bases, Oxidizing agent.
Hazardous decomposition products	Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

**11. Toxicological information****Information on likely routes of exposure****Product Information**

Inhalation	Specific test data for the substance or mixture is not available.
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<b>Eye contact</b>	Specific test data for the substance or mixture is not available.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Harmful if swallowed. (based on components).

**Symptoms related to the physical, chemical and toxicological characteristics**

<b>Symptoms</b>	Ingestion causes nausea, weakness and central nervous system effects, headache, vomiting, dizziness, symptoms of drunkenness. May cause temporary eye irritation. May cause redness and tearing of the eyes. Prolonged or repeated contact may dry skin and cause irritation. Erythema (skin redness), Rashes, Swelling of tissue, Itching. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.
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**Acute toxicity****Numerical measures of toxicity****Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethane-1,2-diol	= 4700 mg/kg ( Rat )	= 10600 mg/kg ( Rat )	> 2.5 mg/L ( Rat ) 6 h

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	No information available.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.

**Carcinogenicity** Based on available data, the classification criteria are not met.

Chemical name	ACGIH	IARC	NTP	OSHA
Ethane-1,2-diol 107-21-1	Not listed	A4	Not listed	Not listed

<b>Reproductive toxicity</b>	An ingredient in this product has been shown to cause adverse effects to offspring when animals were exposed during a long-term feeding study. Based on available data, the classification criteria are not met.
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<b>Developmental toxicity</b>	Contains ingredients that have suspected developmental hazards.
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<b>STOT - single exposure</b>	Based on available data, the classification criteria are not met.
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<b>STOT - repeated exposure</b>	May cause damage to organs through prolonged or repeated exposure.
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**Product Information**

<b>Aspiration hazard</b>	None of the ingredients are known to be an aspiration hazard.
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**12. Ecological information****Ecotoxicity**

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethane-1,2-diol	EC50: 6500 -	LC50: 14 - 18mL/L	-	EC50: =46300mg/L

107-21-1	13000mg/L (96h, Pseudokirchneriella subcapitata)	(96h, Oncorhynchus mykiss) LC50: 40000 - 60000mg/L (96h, Pimephales promelas) LC50: =16000mg/L (96h, Poecilia reticulata) LC50: =27540mg/L (96h, Lepomis macrochirus) LC50: =40761mg/L (96h, Oncorhynchus mykiss) LC50: =41000mg/L (96h, Oncorhynchus mykiss)		(48h, Daphnia magna)
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**Persistence and degradability** No information available.

**Bioaccumulation** No information available.

#### Component Information

Chemical name	Partition coefficient
Ethane-1,2-diol 107-21-1	-1.93

**Mobility in soil** No information available.

**Other adverse effects** No information available.

### 13. Disposal considerations

#### Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations, Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

### 14. Transport information

**Note:** Not classified as dangerous in the meaning of sea and air transport regulations.

**DOT** Not Regulated (Single Container < RQ)  
**UN/ID no** UN3082  
**Proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
**Transport hazard class(es)** 9  
**Packing group** III  
**Reportable Quantity (RQ)** (Ethane-1,2-diol: RQ (kg)= 2270.00) Ethane-1,2-diol: RQ (lb)= 5000.00  
**DOT reportable quantity kg (calculated)** Ethane-1,2-diol: RQ (kg)= 3784.00  
**DOT Reportable Quantity lbs. (calculated)** Ethane-1,2-diol: RQ (lb)= 8335.00  
**Special Provisions** 8, 146, 173, 335, IB3, T4, TP1, TP29  
**DOT Marine Pollutant** NP  
**Description** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethane-1,2-diol), 9, III, Marine pollutant  
**Emergency Response Guide Number** 171

**TDG** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

## 15. Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Regulations

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

#### International Inventories

Contact supplier for inventory compliance status

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Ethane-1,2-diol	107-21-1	Present	Active

#### US Federal Regulations

##### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Ethane-1,2-diol - 107-21-1	1.0

##### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

##### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

##### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Ethane-1,2-diol 107-21-1	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

#### US State Regulations

##### California Proposition 65

This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65
Ethane-1,2-diol - 107-21-1	Developmental



**U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ethane-1,2-diol 107-21-1	X	X	X

**U.S. EPA Label Information****EPA Pesticide Registration Number** Not applicable**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend** Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Key literature references and sources for data used to compile the SDS**

U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AELG(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 Japan GHS Classification  
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

**Issuing Date** 01-Jun-2021**Revision Date** 01-Jun-2021**Revision Note** Initial Release.**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**