

Safety Data Sheet



Issue Date: 24-Jul-2014

Revision Date: 11-May-2015

Version 1

1. IDENTIFICATION

Product Identifier

Product Name Evans High Performance Waterless Engine Coolant

Other means of identification

SDS # 004

Recommended use of the chemical and restrictions on use

Recommended Use Coolant.

Details of the supplier of the safety data sheet

Manufacturer Address

Evans Cooling Systems, Inc.
1 Mountain Rd.
Suffield, CT 06078
www.evanscooling.com

Emergency Telephone Number

Company Phone Number 860-668-1114
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Yellow liquid

Physical State Liquid

Odor Faint sweet

Classification

Acute toxicity - Oral	Category 4
Reproductive toxicity	Category 2
Specific Target Organ Toxicity – Repeated Exposure	Category 2

Signal Word

Warning

Hazard Statements

Harmful if swallowed
Suspected of damaging fertility or the unborn child
May cause damage to kidneys through prolonged or repeated exposure



Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe mist or vapors

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Ethylene glycol	107-21-1	80-85
2-Ethylhexanoic acid	149-57-5	<1
Sodium Nitrate	7631-99-4	<1

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES**First Aid Measures**

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes.
Inhalation	Remove to fresh air.
Ingestion	Call a poison center or doctor/physician if you feel unwell. Rinse mouth.

Most important symptoms and effects

Symptoms	Harmful if swallowed. Ingestion of ethylene glycol may cause abdominal pain, nausea, vomiting, dizziness, drowsiness, weakness, blurring of vision, irritability, back pain, decrease in urine output, kidney failure, and central nervous system effects, including irregular eye movements, convulsions and coma. Severe kidney injury may occur. May be fatal if large amount are swallowed. Contact with eyes may cause slight transient irritation seen as excessive redness. Prolonged or repeated contact with skin may cause flaking, tenderness and softening of the skin. No adverse inhalation effects are expected under normal use conditions. If significant vapors or mists are inhaled, exposure may result in irritation to the upper respiratory system.
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Indication of any immediate medical attention and special treatment needed**Notes to Physician**

Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Water spray (fog). Foam. Dry chemical.

Unsuitable Extinguishing Media Not determined.**Specific Hazards Arising from the Chemical**

Not determined.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray to keep fire-exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Use personal protective equipment as required.

Environmental Precautions

See Section 12 for additional Ecological Information.

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

Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up

Spread granular absorbent. Sweep up and place in container for disposal. Comply with spill all local notification requirements. All response activities must comply with HAZWOPER (29CFR 1910.120). Dispose of contents/container to an approved waste disposal plant.

7. HANDLING AND STORAGE**Precautions for safe handling****Advice on Safe Handling**

Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Wash face, hands, and any exposed skin thoroughly after handling.

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

Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up.

Incompatible Materials

Oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
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Ethylene glycol 107-21-1	Ceiling: 100 mg/m ³ aerosol only	(vacated) Ceiling: 50 ppm (vacated) Ceiling: 125 mg/m ³	-
2-Ethylhexanoic acid 149-57-5	TWA: 5 mg/m ³ inhalable fraction and vapor	-	-
Sodium Nitrate 7631-99-4	-	-	-

Appropriate engineering controls**Engineering Controls**

Apply technical measures to comply with the occupational exposure limits. Showers. Eyewash stations. Ventilation systems.

Individual protection measures, such as personal protective equipment**Eye/Face Protection**

Eye protection must be provided in accordance with OSHA regulations (29 CFR 1910.133), ANSI Z87.1, or European Standard EN 166, as applicable.

Skin and Body Protection

Rubber or PVC gloves. Suitable protective clothing.

Respiratory Protection

Not normally needed during intended usage and handling. However, if exposure causes irritation during routine or non-routine application of product, use NIOSH/MSHA approved respiratory protection (refer to 29CFR 1910.134).

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Faint sweet
Appearance	Yellow liquid	Odor Threshold	Not determined
Color	Yellow		
Property	Values	Remarks • Method	
pH	Not determined		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	190.6 °C / 375 °F		
Flash Point	120 °C / 248 °F		
Evaporation Rate	Not determined		
Flammability (Solid, Gas)	Liquid- Not Applicable		
Upper Flammability Limits	22%		
Lower Flammability Limit	3%		
Vapor Pressure	0.7	@ 80°C (176°F)	
Vapor Density	>1	(Air=1)	
Specific Gravity	Not determined		
Water Solubility	Completely soluble		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Auto-ignition Temperature	Not determined		
Decomposition Temperature	Not determined		
Kinematic Viscosity	Not determined		
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidizing Properties	Not determined		
Additional Information	Specific Heat (@ 212°F) : 2870/kg K		
Density	1.113 kg/m ³ @20°C		

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

Oxidizers.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

Eye Contact Avoid contact with eyes.

Skin Contact Avoid contact with skin.

Inhalation Avoid breathing vapors or mists.

Ingestion Harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene glycol 107-21-1	4000 - 10200 mg/kg (Rat)	= 9530 µL/kg (Rabbit) = 10600 mg/kg (Rat)	-
2-Ethylhexanoic acid 149-57-5	= 1600 mg/kg (Rat)	= 1140 mg/kg (Rabbit)	-
Sodium Nitrate 7631-99-4	= 1267 mg/kg (Rat)	-	-

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

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

Carcinogenicity Nitrate or nitrite ingested under conditions that result in endogenous nitrosation are considered IARC group 2A carcinogens.

Chronic Exposure Ingestion of ethylene glycol may damage the kidneys.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium Nitrate 7631-99-4		Group 2A		X

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen
IARC (International Agency for Research on Cancer)
Group 2A - Probably Carcinogenic to Humans
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethylene glycol 107-21-1	6500 - 13000: 96 h Pseudokirchneriella subcapitata mg/L EC50	41000: 96 h Oncorhynchus mykiss mg/L LC50 14 - 18: 96 h Oncorhynchus mykiss mL/L LC50 static 27540: 96 h Lepomis macrochirus mg/L LC50 static 40761: 96 h Oncorhynchus mykiss mg/L LC50 static 16000: 96 h Poecilia reticulata mg/L LC50 static 40000 - 60000: 96 h Pimephales promelas mg/L LC50 static	EC50 = 10000 mg/L 16 h EC50 = 620 mg/L 30 min EC50 = 620.0 mg/L 30 min	46300: 48 h Daphnia magna mg/L EC50
2-Ethylhexanoic acid 149-57-5	61: 72 h Desmodesmus subspicatus mg/L EC50 41: 96 h Desmodesmus subspicatus mg/L EC50	70: 96 h Pimephales promelas mg/L LC50	EC50 = 110 mg/L 17 h EC50 = 670 mg/L 30 min	85.4: 48 h Daphnia magna mg/L EC50
Sodium Nitrate 7631-99-4		2000: 96 h Lepomis macrochirus mg/L LC50 static 994.4 - 1107: 96 h Oncorhynchus mykiss mg/L LC50 static		

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Ethylene glycol 107-21-1	-1.93
2-Ethylhexanoic acid 149-57-5	2.7
Sodium Nitrate 7631-99-4	-3.8

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Sodium Nitrate 7631-99-4	Toxic Ignitable Reactive

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

Not regulated. Containers with 5000 lbs of ethylene glycol or more must be shipped as Hazmat.

IATA

Not regulated

IMDG

Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Ethylene glycol	Present	X		Present		Present	X	Present	X	X
2-Ethylhexanoic acid	Present	X		Present		Present	X	Present	X	X
Sodium Nitrate	Present	X		Present		Present	X	Present	X	X

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

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	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ethylene glycol 107-21-1	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

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	CAS No	Weight-%	SARA 313 - Threshold Values %
Ethylene glycol - 107-21-1	107-21-1	80-85	1.0
Sodium Nitrate - 7631-99-4	7631-99-4	<1	1.0

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations**California Proposition 65**

This product contains ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm if ingested.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethylene glycol 107-21-1	X	X	X
2-Ethylhexanoic acid 149-57-5	X	X	
Sodium Nitrate 7631-99-4	X	X	X

16. OTHER INFORMATION**NFPA****Health Hazards**

2

Flammability

1

Instability

0

Special Hazards

None

HMIS**Health Hazards**

2

Flammability

1

Physical Hazards

0

Personal Protection

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11-May-2015

Revision Note:

New format

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