



COOLANOL

Released: 2015-07-13

Version: 1.5

Revision Date: 2024-09-30

1. IDENTIFICATION OF THE SUBSTANCE / APPLICATION AND THE COMPANY

Supplier: Maxima Racing Oils
9266 Abraham Way
Santee, CA 92071
USA
+1 619 449 5000

Product Name: Coolanol
Article Number: 82964

Applications: Engine Coolant/Antifreeze

Emergency Telephone: In USA: CHEMTREC +1 703 527 3887 (24 hours)
Outside USA: +1 619 449 5000

2. HAZARDS IDENTIFICATION

GHS Classification

Acute Toxicity: Category 4 (Oral)
Specific Target Organ Toxicity Repeated Exposure: Category 2

GHS Pictogram



Signal Word

Warning!

Hazard Statements

H302 Harmful if swallowed.

Precautionary Statements

H373 May cause damage to kidneys through prolonged or repeated exposure.

Prevention

P260 Do not breathe mist, vapors or spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.

Response

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
P330 Rinse mouth.

Storage

P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor.

Disposal

P405 Store locked up.

Other Hazards

P501 Dispose of contents and container in accordance with local and national regulations.

None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	Content %	CAS Number
Ethylene Glycol	45-50	107-21-1
Diethylene Glycol	1-5	111-466
Denatonium benzoate (bittering agent)	30-50ppm	3734-33-6



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The specific identity and/or exact percentage has been withheld as a trade secret.

4. FIRST-AID MEASURES

Inhalation	If inhaled remove to fresh air. If irritation or difficulty in breathing occurs, get medical attention.
Skin Contact	Wash skin with soap and water. Remove clothing and shoes if contaminated. Launder clothing before reuse.
Eye Contact	Flush eyes with water for several minutes. Remove contact lenses, if present and easy to do so. If eye irritation persists, get medical attention.
Ingestion	If conscious, rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.
Most Important Symptoms	May cause eye irritation. Inhalation of vapors or mists may cause nose, throat and upper respiratory tract irritation. Swallowing may cause gastrointestinal irritation, nausea, vomiting, blurred vision, irritability, back pain, and central nervous system effects.
Indication of Immediate Medical Attention Needed	Get immediate medical attention if large amounts are swallowed.
Notes to Physician	Treat appropriately. The currently recommended medical management of ethylene glycol poisoning includes elimination of ethylene glycol and metabolites, correction of metabolic acidosis and prevention of kidney injury. It is essential to have immediate and follow up urinalysis and clinical chemistry. There should be particular emphasis on acid-base balance and renal function tests. A continuous infusion of 5% sodium bicarbonate with frequent monitoring of electrolytes and fluid balance is used to achieve correction of metabolic acidosis and forced diuresis. As a competitive substrate for alcohol dehydrogenase, ethanol is antidotal. Given in the early stages of intoxication, it blocks the formulation of nephrotoxic metabolites. A therapeutically effective blood concentration of ethanol is in the range 100-150 mg/dl, and should be achieved by a rapid loading dose and maintained by intravenous infusion. For severe and/or deteriorating cases, hemodialysis may be required. Dialysis should be considered for patients who are symptomatic, have severe metabolic acidosis, a blood ethylene glycol concentration greater than 25 md/dl, or compromise of renal functions.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Use water fog, alcohol foam, dry chemical or carbon dioxide (CO ₂) to extinguish flames. A solid stream of water or foam can cause frothing.
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Arising From The
Chemical
Special Protective
Equipment And
Precautions For Fire-
Fighters**

This product is not flammable but may form explosive mixtures in air.
Combustion will produce carbon oxides, aldehydes and ethers.

Firefighters should wear full emergency equipment and a NIOSH approved positive pressure self-contained breathing apparatus. Cool exposed intact containers with water

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear appropriate protective equipment. Wash thoroughly after handling. See also: "Personal Protection "section 8.
Environmental Hazards	Avoid release into the environment. Report spill as required by local and federal regulations.
Methods/Materials for Cleaning up	Dike spill and collect with an inert absorbent. Place into closable containers for disposal. Collected material is handled in accordance with section 13 "Disposal Considerations".

7. HANDLING AND STORAGE

Precautions for Safe Handling:	Harmful if swallowed. Do not drink antifreeze. Avoid contact with eyes and prolonged or repeated contact with skin and clothing. Avoid breathing vapors and mists. Wash thoroughly after handling. Remove contaminated clothing and laundry before re-use.
Conditions for Safe Storage	Store in a cool area away from oxidizing agents. Protect containers from physical damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	Ethylene Glycol Diethylene Glycol	100 mg/m ³ Ceiling ACGIH TLV 10 mg/m ³ TWA AIHA WEEL
Appropriate Engineering Controls	Good general room ventilation (equivalent to outdoors) should be adequate under normal conditions. If the recommended exposure limit is exceeded increased mechanical ventilation such as local exhaust may be required.	
Personal Protection		
Respiratory Protection:	None needed under normal use conditions with adequate ventilation. If exposure limits are exceeded, use a NIOSH approved respirator with organic vapor cartridges and particulate pre-filter. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.	



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- Eye Protection:** Safety goggles recommended if splashing is possible.
- Skin/Body Protection:** Appropriate protective clothing as needed to minimize skin contact.
Suitable eye flushing facilities should be available in the work area.
Contaminated clothing should be removed and laundered before re-use.
- Hand Protection:** Use neoprene or PVC gloves for prolonged or repeated skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Color	Green
Odor	Slightly Sweet odor
Odor Threshold	No data available
pH	10.5-11 (50% solution)
Freezing Point	0°F (-18°C)
Boiling Point	225°F (107°C)
Flash Point	241°F / 116°C (ethylene glycol)
Evaporation Rate	Nil
Flammability (solid, gas)	No data available
Upper Explosion Limit	15.3% (ethylene glycol)
Lower Explosion Limit	3.2% (ethylene glycol)
Vapor Pressure	<0.1 mmHg @68°F (20°C)
Vapor Density (Air=1)	No data available
Relative Density	1.12
Solubility	Insoluble in hydrocarbons; Completely soluble in water
Partition Coefficient: n-octanol/water	No data available
Auto Ignition Temperature	748°F (398°C) (ethylene glycol)
Decomposition Temperature	No data available
Volatile Organic Compounds (VOC)	No data available
Viscosity	No data available

10. STABILITY AND REACTIVITY

Reactivity	Not expected to be reactive.
Chemical Stability	Stable.
Possibility of Hazardous Reactions	None known.
Conditions to Avoid	None known.
Incompatible Materials	Avoid contact with strong oxidizing agents, bases and acids.



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Hazardous Decomposition Product Thermal decomposition may produce carbon oxides, aldehydes and ethers.

11. TOXICOLOGICAL INFORMATION

Potential Health Hazards

Eye Contact: May cause irritation with redness and tearing.

Skin Contact: Prolonged or repeated contact may cause mild irritation.

Inhalation: Excessive inhalation of vapors or mists may cause nausea, vomiting, headache, dizziness and irregular eye movements.

Ingestion: Swallowing large amounts may cause gastrointestinal irritation or pain, nausea, vomiting, central nervous system effects, irregular eye movements, convulsions and coma. May cause severe kidney damage which may be fatal.

Chronic Effects of Overexposure: None known.

Sensitization: None of the components have been found to cause sensitization in animals or humans.

Mutagenicity: This product is not expected to cause mutagenic activity.

Reproductive Toxicity: A three-generation study indicated that ethylene glycol did not affect reproductive parameters at dietary concentrations up to 1.0 gm/kg/day in any generation.

Carcinogenicity: None of the components of this product are listed as a carcinogen or suspected carcinogen by IARC, NTP, or OSHA.

Acute Toxicity:

Ethylene Glycol:	Oral rat LD50 4700 mg/kg, Dermal rat LD50 9530 mg/kg,
Diethylene Glycol:	Oral rat LD50 12565 mg/kg, Dermal rabbit LD50 11890 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ethylene Glycol	96 hr LC50 Pimephales promelas 53,000 mg/L, 48 hr EC50 daphnia magna >10,000 mg/L, 72 hr EL50 Scenedesmus quandricauda >10,000 mg/L
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Diethylene Glycol:	96 hr LC50 western mosquitofish >32,000 mg/L
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Biodegradation Ethylene glycol and diethylene glycol are readily biodegradable.

Bioaccumulation Ethylene glycol has a BCF of 10. Diethylene glycol has a BCF of 3. This suggests the potential for bioaccumulation is low.

Mobility in soil Ethylene glycol and diethylene glycol are highly mobile in soil

Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS

Disposal	Dispose in accordance with all local, state and federal regulations.
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14. TRANSPORT INFORMATION

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT <10,000 lbs.		Not Regulated			
DOT >10,000 lbs	UN3082	RQ, Environmentally hazardous substance, liquid, n.o.s. (Ethylene glycol)	9	PGIII	RQ 10,000 lbs.
TDG		Not Regulated			
IMDG		Not Regulated			
IATA		Not Regulated			

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form

Special precautions: None known.

15. REGULATORY INFORMATION

CERCLA: Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for this product, based on the RQ for Ethylene Glycol (50% maximum) of 5,000 lbs, is 10,000 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations

EPA SARA 302: This product does not contain chemicals regulated under SARA Section 302.

EPA SARA 311 Hazard Classification: Acute Health, Delayed Health

EPA SARA 313: This product contains the following chemicals that are regulated under SARA Title III, section 313:

Ethylene Glycol	107-21-1	45-50%
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California Proposition 65: This product contains the following chemicals known to the State of California to cause cancer and reproductive toxicity:

Warning: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Ethylene Glycol	107-21-1	45-50%	reproductive toxicity
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Chemical Inventories

Toxic Substances Control Act: All of the components of this product are listed on the TSCA inventory



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16. OTHER INFORMATION

NFPA Rating (NFPA 704):	Health: 1	Fire: 1	Instability: 0
HMIS Rating:	Health: 2*	Fire: 1	Physical Hazard: 0
*Chronic Health Hazard			

Date of Revision: September 30, 2024

Date of Previous Revision: January 8, 2018

Revision History:

7/13/15: Converted to GHS format. All section revised

2/9/16: Updated boiling point

3/16/16: Added additional California Prop 65 statement for reproductive toxicity

11/2/17: Updated emergency telephone #

1/8/18: Added denatonium benzoate to section 3

9/30/24: Reviewed all sections to ensure they are up to date

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.