

COOLANOL

Version: 1.4

Released: 2015-07-13 Revision Date: 2018-01-08

1. IDENTIFICATION OF THE SUBSTANCE / APPLICATION AND THE COMPANY

Supplier: Product Name: Coolanol Maxima Racing Oils Article Number: 82964

Applications: Engine Coolant/Antifreeze

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 H373 May cause damage to kidneys through prolonged or repeated

Statements 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.

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

Storage P405 Store locked up.

Disposal P501 Dispose of contents and container in accordance with local and

national regulations.

Other Hazards 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 Notes to Physician Get immediate medical attention if large amounts are swallowed.

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 (CO2) to extinguish flames. A solid stream of water or foam can cause frothing.

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Specific Hazards

This product is not flammable but may form explosive mixtures in air.

Arising From The

Combustion will produce carbon oxides, aldehydes and ethers.

Chemical

Special Protective Firefighters should wear full emergency equipment and a NIOSH approved **Equipment And** positive pressure self-contained breathing apparatus. Cool exposed intact

Precautions For Fire-

containers with water

Fighters

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 launder before re-use.

Conditions for Safe

Store in a cool area away from oxidizing agents. Protect containers from

Storage

physical damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

100 mg/m³ Ceiling ACGIH TLV **Exposure Limits** Ethylene Glycol

> 10 mg/m³ TWA AIHA WEEL Diethylene Glycol

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 None needed under normal use conditions with adequate ventilation. If **Protection:** 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

AppearanceLiquidColorGreen

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 748°F (398°C) (ethylene glycol)

Temperature

Decomposition No data available

Temperature

Volatile Organic No data available

Compounds (VOC)

Viscosity No data available

10. STABILITY AND REACTIVITY

Reactivity Not expected to be reactive.

Chemical Stability Stable. **Possibility of Hazardous** None known.

Reactions

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

Diethylene Glycol: 96 hr LC50 western mosquitofish >32,000 mg/L

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	Proper shipping name	Hazard	Packing	Environmental
	Number		Class	Group	Hazard
DOT <10,000		Not Regulated			
lbs.					
DOT >10,000	UN3082	RQ, Environmentally	9	PGIII	RQ 10,000 lbs.
lbs		hazardous substance, liquid,			
		n.o.s. (Ethylene glycol)			
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 Gylcol 107-21-1 45-50%

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

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: January 8, 2018

Date of Previous Revision: November 2017

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

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.