

SAFETY DATA SHEET

Revision Date 01-31-2018

Version 3

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

<u>Product identifier</u> Product Name:	COOL OFF™
<u>Other means of identification</u> Common Name: UN/ID No Synonyms	0142 Not Regulated None
Product Categories	Automotive Coolant, Additive
Recommended use of the chemical Sale and Use Restrictions Recommended Use Uses advised against	l and restrictions on use Not applicable Restricted to professional users. Consumer use
Details of the supplier of the safety Supplier Address MOC PRODUCTS CO., INC. 12306 Montague Street Pacoima, CA 91331	data sheet

Emergency telephone number Company Phone Number Emergency Telephone

MOC PRODUCTS CO., INC. (818) 794-3500 CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Emergency Overview

Appearance Aqueous solution, Alkaline

Physical state Liquid

Odor Bland, Mild Ammoniacal

Precautionary Statements - Response

<u>Hazards not otherwise classified (HNOC)</u> <u>Other information</u> 45.45 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %	Trade Secret
Ethylene Glycol	107-21-1	1-10	*
*The exact perce	entage (concentration) of compos	sition has been withheld as a tr	ade secret.
	4. FIRST AID M	EASURES	
First aid measures			
General advice	In case of accident or unwelln use or safety data sheet if pos	ess, seek medical advice imme ssible).	ediately (show directions for
Skin contact		enty of water for at least 15 (30 oes. Thoroughly clean shoes b reuse.	
Eye contact	Immediately flush eyes for at	least 15 minutes. Get medical a	attention.
Ingestion	attention. If individual is drows	n water (only if the person is co sy or unconscious, do not give head facing down. Call for em	anything by mouth; place
Most important symptoms and effe	ects, both acute and delayed		
Symptoms	Skin irritation, Eye irritation, D	rowsiness, Dizziness.	
Indication of any immediate medic	al attention and special treatm	nent needed	
Self-protection of the first aider	Low hazard for usual industria	al or commercial handling.	

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Use dry chemical, CO2, water spray (fog) or alcohol resistant foam.

Small Fire	Dry chemical or CO2.
Large Fire	Water spray or fog; Alcohol resistant foam.
Explosive properties:	Not an explosive.

Specific hazards arising from the chemical

Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

Hazardous combustion products Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx), Ammonia.

Specific methods: Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Special firefighting procedures:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective e	quipment and emergency procedures
Personal precautions:	Avoid contact with skin and eyes. Use personal protective equipment. See Section 8 for information on appropriate personal protective equipment.
For emergency responders	Use personal protection recommended in Section 8.
Environmental precautions	
Environmental precautions:	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system. Do not let product enter drains.
Methods and material for containm	nent and cleaning up
Methods for Containment	Prevent further leakage or spillage if safe to do so. Prevent from entering into soil, ditches, sewers, waterways or groundwater.
Methods for clean-up:	Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to state, local, federal regulations.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
	7. HANDLING AND STORAGE
Precautions for safe handling	
Handling:	Do not get in eyes, on skin, or on clothing. Keep only in the original container in a cool, well-ventilated place. Avoid prolonged or repeated contact with skin. Keep away from any

Conditions for safe storage, including any incompatibilities

Technical measures/precautions: Eye wash and safety shower should be easily accessible.

Materials to avoid: Strong acids and strong bases; Strong oxidizing agents, Aldehydes.

incompatible materials (See Section 10).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical Name	ACGIH TLV	OSHA Exposure Limits:	NIOSH IDLH
Ethylene Glycol 107-21-1	Ceiling: 100 mg/m ³ aerosol only	125 mg/m³ (50 ppm)	-
Appropriate engineering controls			
Engineering measures:	Ensure adequate ventilation. E	ye wash and safety shower shou	uld be easily accessible.
Individual protection measures, s	uch as personal protective equi	pment	
Eye/face protection	Wear safety glasses with side shields (or goggles).		
Skin and body protection	Wear normal work clothing, Chemical resistant gloves: (consult with the specific manufacturer to confirm performance).		
Respiratory protection	Not required under normal use. Ensure adequate ventilation. A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use.		
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Use perso protective equipment as required. Avoid contact with eyes, skin and clothing. Wash face hands and any exposed skin thoroughly after handling. Take off contaminated clothing a wash it before reuse.		

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Color	
Property	

pН Melting point/freezing point Boiling point / boiling range Flash point **Evaporation rate** Flammability (solid, gas) Flammability Limits in Air Upper flammability limit Lower flammability limit Vapor pressure Vapor density **Specific Gravity** Water solubility Solubility in other solvents Partition coefficient Autoignition temperature **Decomposition temperature** Kinematic viscosity Dynamic viscosity **Explosive properties Oxidizing properties**

Other information

Softening point Molecular weight VOC Content (%) VOC Content (%)

Density **Bulk density**

Reactivity Reactivity

Liquid Aqueous solution, Alkaline Yellow

Values 9.0-10.0 < 0 °C / 32 °F > 100 °C / 212 °F > 111 °C / 232 °F Slower than ether No information available

No Data Available No Data Available No Data Available Heavier than air 1.07 Soluble in water No Data Available No Data Available No Data Available No Data Available No information available No Data Available No Data Available No Data Available

No Data Available No Data Available

5.0

1.07 g/cc No Data Available Odor Odor threshold

Remarks • Method

(based on components) (based on components) (based on components)

Bland, Mild Ammoniacal No information available

Chemical stability Possibility of Hazardous Reactions None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Stable: Stable under normal conditions.

Conditions to avoid

Keep out of reach of children.

Incompatible materials

Strong acids and strong bases; Strong oxidizing agents, Aldehydes. Materials to avoid: **Hazardous Decomposition Products**

Hazardous Decomposition Products Carbon dioxide (CO2), Carbon monoxide, Aldehydes, Ketones, Organic acids, Hydrocarbons, Nitrogen oxides (NOx), Ammonia.

10. STABILITY AND REACTIVITY

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	WARNING: Harmful or fatal if swallowed. May cause eye irritation. May cause skin irritation.
Inhalation	In high concentrations: May be harmful if inhaled. Avoid breathing vapors or mists.
Eye contact	May cause irritation: redness, stinging and tearing.
Skin Contact	May cause irritation: Prolonged contact may cause redness and irritation. May cause burns.
Ingestion	May be harmful if swallowed. Contains .?, Ethylene Glycol (CAS#107-21-1): Ingestion may include inebriation, nausea and vomiting, metabolic acidosis, and CNS depression. Tachycardia, hypertension, hyperventilation hypoxia and renal failure are also possible.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene Glycol 107-21-1	= 4700 mg/kg (Rat)	=10,626 mg/kg(Rabbit)	-

Information on toxicological effects

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

Sensitization Mutagenic effects:	No information available. No data available to indicate product or any components present at or greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by IARC, NTP, or OSHA.
Reproductive toxicity	Ethylene Glycol (CAS#107-21-1): Laboratory experiments have shown teratogenic effects. Experiments have shown reproductive toxicity effects on laboratory animals.
STOT - single exposure	Not classified.
STOT - repeated exposure	Not classified.
Chronic toxicity	Prolonged skin contact may defat the skin and produce dermatitis.
Subchronic toxicity	No information available.
Target Organ Effects	Liver, Kidney, Eyes, Skin, Central nervous system, Brain.
Neurological effects	May affect the central nervous system causing dizziness, headache or nausea.
Aspiration hazard	No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity45.45 % of the mixture consists of ingredient(s) of unknown toxicityThe following values are calculatedbased on chapter 3.1 of the GHS documentATEmix (oral)10000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

45.45 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethylene Glycol	6500 - 13000: 96 h	41000: 96 h Oncorhynchus		46300: 48 h Daphnia
107-21-1	Pseudokirchneriella	mykiss mg/L LC50 14 - 18:		magna mg/L EC50
	subcapitata mg/L EC50	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 40000 -		
		60000: 96 h Pimephales		
		promelas mg/L LC50 static		
		16000: 96 h Poecilia		
		reticulata mg/L LC50 static		

Persistence and degradability

No information available.

Bioaccumulation

No information available.

<u>Mobility</u>

Soluble in water.

Chemical Name	Partition coefficient
Ethylene Glycol	-1.36
107-21-1	

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes	Dispose of in accordance with federal, state and local regulations.
Contaminated packaging	Do not reuse container. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT	Not regulated
IATA	Not regulated
IMDG	Not regulated

15. REGULATORY INFORMATION

International Inventories

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

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	CAS Number	Weight %	SARA 313 - Threshold Values %
Ethylene Glycol	107-21-1	1-10	1.0 % de minimis
107-21-1			concentration

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

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

State Regulations (RTK)

California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm:

Chemical Name	CAS Number	California Proposition 65
Ethylene Glycol	107-21-1	Developmental
Diethanolamine	111-42-2	Carcinogen

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

<u>NFPA Rating</u> Health hazards 1 Flammability 1 Instability 0 Physical and Chemical Properties -<u>HMIS Rating</u> Health hazards 2* Flammability 1 Physical hazards 0 Personal protection B Chronic Hazard Star Legend

* = Chronic Health Hazard

01-31-2018 01-31-2018

Prepared by Issue Date Revision Date Revision Note

This data sheet contains changes from the previous version in section(s): 15

<u>Disclaimer</u>

The information provided in this Material 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.

Environmental Health and Safety Department

End of Safety Data Sheet