

SAFETY DATA SHEET

Issue Date 01-31-2018 Revision Date 01-31-2018 Version 3

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

Product identifier

Product Name: COOL OFF™

Other means of identification

Common Name: 0142

UN/ID No Not Regulated

Synonyms None

Product Categories Automotive Coolant, Additive

Recommended use of the chemical and restrictions on use

Sale and Use Restrictions Not applicable

Recommended Use Restricted to professional users.

Uses advised against Consumer use

Details of the supplier of the safety data sheet

Supplier Address

MOC PRODUCTS CO., INC. 12306 Montague Street Pacoima, CA 91331

Emergency telephone number

Company Phone Number MOC PRODUCTS CO., INC. (818) 794-3500

Emergency Telephone 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

Hazards not otherwise classified (HNOC)

Other information

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 percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible).

Skin contact Immediately flush skin with plenty of water for at least 15 (30 or 60) minutes. Remove

contaminated clothing and shoes. Thoroughly clean shoes before reuse. Wash

contaminated clothing before reuse.

Eye contact Immediately flush eyes for at least 15 minutes. Get medical attention.

Ingestion If swallowed, rinse mouth with water (only if the person is conscious). Seek medical

attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with head facing down. Call for emergency services immediately.

Most important symptoms and effects, both acute and delayed

Symptoms Skin irritation, Eye irritation, Drowsiness, Dizziness.

Indication of any immediate medical attention and special treatment needed

Self-protection of the first aider Low hazard for usual industrial 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 equipment 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.

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 containment 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

incompatible materials (See Section 10).

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA Exposure Limits:	NIOSH IDLH
Ethylene Glycol	Ceiling: 100 mg/m³ aerosol only	125 mg/m³ (50 ppm)	-
107-21-1			

Appropriate engineering controls

Engineering measures: Ensure adequate ventilation. Eye wash and safety shower should be easily accessible.

Individual protection measures, such as personal protective equipment

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 personal 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 and

wash it before reuse.

Odor

Odor threshold

Remarks • Method

(based on components)

(based on components)

(based on components)

Bland, Mild Ammoniacal

No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Appearance Aqueous solution, Alkaline

Color Yellow

 Property
 Values

 pH
 9.0-10.0

Melting point/freezing point < 0 °C / 32 °F

Boiling point / boiling range > 100 °C / 212 °F

Flash point > 111 °C / 232 °F

Evaporation rate Slower than ether

Flammability (solid, gas) No information available

Flammability Limits in Air

Upper flammability limit
Lower flammability limit
Vapor pressure
Vapor density

No Data Available
No Data Available
Heavier than air

Specific Gravity 1.07

Water solubility Soluble in water Solubility in other solvents No Data Available Partition coefficient No Data Available No Data Available **Autoignition temperature Decomposition temperature** No Data Available Kinematic viscosity No information available **Dynamic viscosity** No Data Available **Explosive properties** No Data Available **Oxidizing properties** No Data Available

Other information

Softening point No Data Available
Molecular weight No Data Available

VOC Content (%)

VOC Content (%) 5.0

Density 1.07 g/cc

Bulk density No Data Available

10. STABILITY AND REACTIVITY

Reactivity

Reactivity Stable: Stable under normal conditions.

Chemical stability

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

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

Hazardous Decomposition Products

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

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information WARNING: Harmful or fatal if swallowed. May cause eve irritation. May cause skin irritation.

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	= 4700 mg/kg (Rat)	=10,626 mg/kg (Rabbit)	-
107-21-1			

Information on toxicological effects

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

Sensitization No information available.

Mutagenic effects: 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 Toxicity 45.45 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (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.

Mobility

Soluble in water.

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

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastesDispose 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

<u>Not regulated</u><u>IATA</u>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)
Γ	Ethylene Glycol	5000 lb		RQ 5000 lb final RQ
1	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

NFPA Rating

Health hazards 1

Flammability 1

Instability 0

Physical and Chemical Properties -

HMIS Rating

Health hazards 2* Flammability 1 Physical hazards 0 Personal protection B

Chronic Hazard Star Legend *= Chronic Health Hazard

Prepared by Environmental Health and Safety Department

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Revision Note

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

Disclaimer

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.

End of Safety Data Sheet
