# SAFETY DATA SHEET



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Version 1

1. IDENTIFICATION		
Product Identifier Product Name	FROSTSAFE/FROSTGUARD 1%-99%	
Other means of identification SDS #	EG	
Other Information	Package type: 1, 5, 55 gal.	
Recommended use of the chemical and restrictions on use		
Recommended Use	Ethylene Glycol based anti-freeze.	
Restrictions on Use	Avoid food contact surfaces. For professional use only.	
Details of the supplier of the safet	ty data sheet	
Manufacturer Address	<u> </u>	
Atlantic Chemical & Equipment Com	ipany	
3471 Atlanta Industrial Parkway		
Suite 200		
Atlanta, GA 30331		
Emergency telephone number		
Company Phone Number	404-505-6626 1-800-929-2436	
Emergency Telephone	Chemtrec 1-800-424-9300	

# 2. HAZARDS IDENTIFICATION

## **Classification**

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2B

## Signal word Warning

Hazard statements Harmful if swallowed Causes eye irritation



Appearance Slightly red/clear viscous liquid

Physical state Liquid

Odor Antifreeze odor

## **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

## **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention Rinse mouth IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

#### Precautionary Statements - Disposal

Dispose of in accordance with federal, state and local regulations

Hazards not otherwise classified (HNOC) Not Applicable Other Information Not Applicable

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Ethylene glycol	107-21-1	<99

# 4. FIRST AID MEASURES

First aid measures	
General advice	Provide this SDS to medical personnel for treatment.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth. Call a physician or poison control center immediately.
Skin Contact	Wash the skin immediately with soap and water. Get medical attention.
Most important symptoms and effe	cts, both acute and delayed
Symptoms	May cause irritation to the mucous membranes and upper respiratory tract. May cause severe eye irritation. Will cause gastrointestinal tract irritation.

#### Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

# **5. FIRE-FIGHTING MEASURES**

#### Suitable Extinguishing Media

Dry chemical, CO2, alcohol-resistant foam or water spray.

Unsuitable Extinguishing Media Not determined.

#### Specific hazards arising from the chemical

Non-combustible.

Hazardous combustion products Carbon oxides.

#### 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.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures		
Personal precautions	Use personal protective equipment as required. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.	
Environmental precautions	Do not empty into drains.	
Methods and material for containment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so. Collect using an inert absorbent material and place in appropriate containers for disposal.	
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal. For waste disposal, see section 13 of the SDS.	

#### 7. HANDLING AND STORAGE

# Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Avoid breathing vapors, mist or gas. Wash thoroughly with soap and water after handling. Do not eat, drink or smoke when using this product.

#### Conditions for safe storage, including any incompatibilities

Storage ConditionsKeep containers tightly closed in a dry, cool and well-ventilated place.Incompatible materialsDehydrating agents. Sulfuric acid. Nitric acid. Oxygen. Hydrogen peroxide. Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure Guidelines

Exposure Guidennes			
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethylene glycol	Ceiling: 100 mg/m <sup>3</sup> aerosol only	(vacated) Ceiling: 50 ppm	-
107-21-1		(vacated) Ceiling: 125 mg/m <sup>3</sup>	
Appropriate engineering controls			
Engineering Controls	If vapors are detected, ventilate work area by opening windows and using exhaust fans. Always work with wind from behind.		
Individual protection measures, suc	ch as personal protective equip	oment	
Eye/face protection	Wear goggles or chemical safe	ty glasses.	
Skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact. Wear protective Neoprene™ gloves.		
Respiratory protection	High vapor or mist concentration	ons may require a NIOSH appro	oved organic vapor respirator.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.		

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Appearance Color

Property
pH
Melting point/freezing point
Boiling point/boiling range
Flash point
Evaporation rate
Flammability (solid, gas)
Flammability Limits in Air
Upper flammability limits
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

Liquid Slightly viscous liquid Red/Clear

Values

Not determined Not determined Not determined Not determined Not determined Not determined

Not determined Not determined Not determined Not determined

Not determined Not determined Not determined Not determined Not determined Not determined Not determined

1.11

Odor Odor threshold Antifreeze odor Not determined

#### **Remarks** • Method

# **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**

Incompatible materials. Keep out of reach of children.

#### Incompatible materials

Dehydrating agents. Sulfuric acid. Nitric acid. Oxygen. Hydrogen peroxide. Strong oxidizing agents.

#### **Hazardous Decomposition Products**

Carbon oxides. Organic compounds.

# **11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

#### Product Information

Inhalation	Avoid breathing vapors or mists.
Eye contact	Causes eye irritation.
Skin Contact	Irritating to skin. Avoid contact with skin.
Ingestion	Harmful if swallowed.

#### **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene glycol 107-21-1	4000 mg/kg (Rat)	9530 µL/kg (Rabbit)	-

#### 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
 This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

 Numerical measures of toxicity- Product
 Not determined

 The following values are calculated based on chapter 3.1 of the GHS document .
 ATEmix (oral)
 515 mg/kg

 ATEmix (dermal)
 9823 mg/kg

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

Harmful to aquatic life Harmful to aquatic life with long lasting effects

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethylene glycol 107-21-1	6500 - 13000: 96 h Pseudokirchneriella subcapitata mg/L EC50	14 - 18: 96 h Oncorhynchus mykiss mL/L LC50 static 16000: 96 h Poecilia reticulata mg/L LC50 static 27540: 96 h Lepomis macrochirus mg/L LC50 static 40000 - 60000: 96 h Pimephales promelas mg/L LC50 static 40761: 96 h Oncorhynchus mykiss mg/L LC50 static 41000: 96 h Oncorhynchus mykiss mg/L LC50	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

# Persistence and degradability

Not determined.

## Bioaccumulation

Not determined.

# Mobility

Not determined.

Chemical Name	Partition coefficient
Ethylene glycol	0
107-21-1	

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.

# **14. TRANSPORT INFORMATION**

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

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

# US Federal Regulations

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Ethylene glycol - 107-21-1	107-21-1	<99	1.0

#### SARA 311/312 Hazard Categories

Yes
Yes
No
No
No

ſ	Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
	Ethylene glycol	5000 lb		RQ 5000 lb final RQ RQ 2270 kg
	107-21-1			final RQ

## US State Regulations

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethylene glycol	Х	Х	Х
107-21-1			

#### U.S. EPA Label Information

16. OTHER INFORMATION				
NFPA	Health hazards	Flammability Not determined	Instability Not determined	Special Hazards
HMIS	Health hazards	Flammability 1	Physical hazards	Personal protection X
Chronic Hazard Star L	egend *= Chron	nic Health Hazard		
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#### **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