

Safety Data Sheet

Issue Date: 03-Nov-2015 Revision Date: 27-Oct-2021 Version 2

1. IDENTIFICATION

Product Identifier

Product Name ClearWing EG (Type IV)

Other means of identification

SDS # ALLCLR-005

UN/ID No UN3082

Recommended use of the chemical and restrictions on use

Recommended Use De-/anti-icing Fluid – AV Grade.

Details of the supplier of the safety data sheet

Supplier Address

AllClear Systems, LLC 655 Conshohocken Road, Suite 301 Conshohocken, PA 19428 Ph: 484-374-0922

Emergency Telephone Number

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Clear green liquid Physical State Liquid Odor Sweet

Classification

| Acute toxicity - Oral | Category 4 |
|--|------------|
| Specific target organ toxicity (repeated exposure) | Category 2 |

Signal Word Warning

Hazard Statements

Harmful if swallowed

May cause damage to organs through prolonged or repeated exposure





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Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

Get medical advice/attention if you feel unwell

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

| 3. COMPOSITION/INFORMATION ON INGREDIENTS | | | | | | |
|---|--|--|--|--|--|--|
| | | | | | | |
| Chemical Name CAS No Weight-% | | | | | | |
| Ethylene glycol 107-21-1 <55 | | | | | | |

^{**}If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

4. FIRST-AID MEASURES

First Aid Measures

General Advice Provide this SDS to medical personnel for treatment.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists:

Get medical advice/attention.

Skin Contact Remove contaminated clothing; wash affected area with soap and water; launder

contaminated clothing before reuse; if irritation persists, seek medical attention.

Inhalation Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician / poison

center if individual's condition declines or if symptoms persist.

Ingestion If swallowed, do not induce vomiting except at the direction of medical personnel. Rinse

mouth. Drink 1 or 2 glasses of water. Get medical attention immediately.

Most important symptoms and effects

May cause eye and skin irritation. May cause nausea, vomiting, stomach ache, and **Symptoms**

diarrhea.

Indication of any immediate medical attention and special treatment needed

May aggravate pre-existing skin disorders. **Notes to Physician**

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water, foam, carbon dioxide, dry powder.

Unsuitable Extinguishing Media Not determined.

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Specific Hazards Arising from the Chemical

The product may become combustible after prolonged heating at the boiling point.

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 Wear protective clothing as described in Section 8 of this safety data sheet. Ventilate

affected area.

Environmental Precautions Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See

Section 12, Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an inert

(i.e. vermiculite, dry sand or earth) absorbent material.

Methods for Clean-Up Sweep up absorbed material and shovel into suitable containers for disposal. Discard any

product, residue, disposable container or liner in full compliance with federal, state, and

local regulations. For waste disposal, see section 13 of the SDS.

Prevention of Secondary

Hazards

Material can create slippery conditions.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal

protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Follow all SDS/label precautions even after container is emptied, because it may retain product residues. Do not breathe

vapors or spray mist. Do not eat, drink or smoke when handling this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Store away

from incompatible materials.

Packaging Materials Empty containers retain product residue and can be hazardous.

Incompatible Materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|-----------------------------|---------------------------------|--|------------|
| Ethylene glycol 107-21-1 | Ceiling: 100 mg/m³ aerosol only | (vacated) Ceiling: 50 ppm (vacated) Ceiling: 125 mg/m ³ | - |

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits. Eyewash

stations. Showers.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear eye protection if splashing is possible.

Skin and Body Protection Chemical impervious gloves. Boots, aprons needed for protection against spill / splashes.

Respiratory Protection Not usually necessary under conditions of normal use. In case of inadequate ventilation

wear respiratory protection.

General Hygiene Considerations Wash contaminated clothing before reuse. Wash face, hands and any exposed skin

thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid

Clear green liquid **Appearance** Odor Sweet

Color Clear green **Odor Threshold** Not determined

Property The physical data listed below are Remarks • Method

typical values and should not be

read as a product specification

Ha 7.90-8.80

Melting Point/Freezing Point 100% Below -43°C **Boiling Point/Boiling Range** > 100 °C / > 212 °F

Flash Point Not determined **Evaporation Rate** Not determined Flammability (Solid, Gas) Liquid-not applicable **Upper Flammability Limits** Not determined

Lower Flammability Limit Not determined Vapor Pressure Not determined Vapor Density 1.5 (estimated)

Specific Gravity 1.07

@ 20°C (68°F)

Water Solubility Completely miscible Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined Kinematic Viscosity Not determined Dynamic Viscosity Not determined **Explosive Properties** Not an explosive **Oxidizing Properties** Not determined

10. STABILITY AND REACTIVITY

(Air=1)

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

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Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Avoid heat, sparks, open flames and other ignition sources. Keep separated from incompatible substances.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Incomplete combustion may produce Carbon Monoxide and other harmful gases.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact May cause temporary irritation on eye contact.

Skin Contact May cause temporary irritation on skin contact.

Inhalation Avoid breathing vapors or mists.

Ingestion Harmful if swallowed.

Component Information

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-----------------|--------------------------|---------------------------------|-----------------|
| Ethylene glycol | 4000 - 10200 mg/kg (Rat) | = 9530 μL/kg (Rabbit) = 10600 | - |
| 107-21-1 | | mg/kg(Rat) | |

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 Based on the information provided, this product does not contain any carcinogens or

potential carcinogens as listed by OSHA, IARC or NTP.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

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Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Component Information

| Chemical Name | Algae/aquatic plants | Fish | Toxicity to | Crustacea |
|-----------------|-----------------------|----------------------------|--------------------------|---------------------------|
| | | | microorganisms | |
| Ethylene glycol | 6500 - 13000: 96 h | 41000: 96 h Oncorhynchus | EC50 = 10000 mg/L 16 h | 46300: 48 h Daphnia magna |
| 107-21-1 | Pseudokirchneriella | mykiss mg/L LC50 14 - 18: | EC50 = 620 mg/L 30 min | mg/L EC50 |
| | subcapitata mg/L EC50 | 96 h Oncorhynchus mykiss | EC50 = 620.0 mg/L 30 min | |
| | | mL/L LC50 static 27540: 96 | | |
| | | h Lepomis macrochirus mg/L | | |
| | | LC50 static 40761: 96 h | | |
| | | Oncorhynchus mykiss mg/L | | |
| | | LC50 static 16000: 96 h | | |
| | | Poecilia reticulata mg/L | | |
| | | LC50 static 40000 - 60000: | | |
| | | 96 h Pimephales promelas | | |
| | | mg/L LC50 static | | |

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

| Chemical Name | Partition Coefficient |
|-----------------------------|-----------------------|
| Ethylene glycol 107-21-1 | -1.93 |

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

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT Not Regulated (Single Container < RQ)

UN/ID No UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s. (Ethylene glycol)

Hazard Class 9
Packing Group III
Reportable Quantity (RQ) 5000 lbs

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IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

| Chemical Name | TSCA | DSL | NDSL | EINECS | ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|-----------------|---------|-----|------|---------|--------|---------|-------|---------|-------|------|
| Ethylene glycol | Present | Χ | | Present | | Present | Х | Present | Х | Х |

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

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

| 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 |

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 No | Weight-% | SARA 313 - Threshold Values % |
|----------------------------|----------|----------|----------------------------------|
| Ethylene glycol - 107-21-1 | 107-21-1 | <55 | 1.0 |

US State Regulations

U.S. State Right-to-Know Regulations

| Γ | Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---|-----------------|------------|---------------|--------------|
| Γ | Ethylene glycol | X | X | X |
| | 107-21-1 | | | |

16. OTHER INFORMATION

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Instability NFPA **Health Hazards Flammability Special Hazards** Not determined Not determined Not determined Not determined **HMIS Health Hazards Flammability Physical Hazards Personal Protection** Not determined Not determined Not determined Not determined

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 Revision Note:
 Review

<u>Disclaimer</u>

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