

Safety Data Sheet

SDS Number: 1031020580CONC
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1. IDENTIFICATION

Product Name: TEC-GUARD UNIVERSAL HD GREEN SCA PRECHARGED CONCENTRATE ANTIFREEZE
Chemical Name/Synonyms: ANTIFREEZE
Company Name & Address: RILCO, 1320 1st Street, Rock Island, IL 61201
For More Information Call: (309) 788-5631 (Monday-Friday 8:00-4:30)
In Case of Emergency Call: (800) 424-9300 Chemtrec (24 Hours/7 Days)
Use of Substance/Mixture: ANTIFREEZE

2. HAZARD(S) IDENTIFICATION

Hazard Classification: Harmful by ingestion, Irritant

Hazard Class :	Category:	Hazard Statement:
Acute Toxicity	4	H302
Causes Eye Irritation	2B	H320

See section 16 for full list of H statements.

Signal Word: **WARNING**

Hazard Statement(s):

H302 Harmful if swallowed.

H320 Causes eye irritation.

Pictogram(s):



Precautionary Statement(s):

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- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P301+P312 IF SWALLOWED: Call a POISON CENTER and get IMMEDIATE MEDICAL ATTENTION.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P330 Rinse mouth.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P501 Dispose of all contents/containers in accordance with local regulations.

Description of Other Hazards:

No Additional Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance: N/A

Chemical Name	CAS#	% By Weight	GHS-US

The exact concentrations of ingredients are considered proprietary and are being withheld as a Trade Secret in accordance with paragraph (i) of §1910.1200. In addition, there is batch-to-batch variability in ingredient concentrations.

Mixture:

Chemical Name	CAS#	% By Weight	GHS-US
Ethylene Glycol	107-21-1	>97	Not Classified
Antifreeze Inhibitors*	Proprietary	<3	Not Classified
Dye	Proprietary	<1	Not Classified

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

*Chemicals listed are only those ingredients which are not trade secrets, are classified as health hazards and are present above their concentration limits.

4. FIRST-AID MEASURES

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Description of First-Aid Measures:

First-Aid Measures General:

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-Aid Measures after Inhalation:

Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

First-Aid Measures after Skin Contact:

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.

First-Aid after Eye Contact:

Rinse immediately with plenty of water for 15 minutes, lifting lower and upper lids. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-Aid after ingestion:

Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER/doctor.

Most Important symptoms and effects, both acute and delayed:

Symptoms after inhalation:	ON CONTINUOUS EXPOSURE/CONTACT: May cause respiratory irritation.
Symptoms after skin contact:	Contact during a long period may cause light irritation.
Symptoms after eye contact:	Direct contact with the eyes is likely to be irritating.
Symptoms after ingestion:	Ingestion is likely to be harmful or have adverse effects.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Agents: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Alcohol-resistant foam. Carbon dioxide. Dry chemical.

Unsuitable Extinguishing Agents: Do not use a heavy water stream. Will float and can be reignited on water

surface.

Protective Equipment/Precautions

for Firefighters:

Cool tanks/drums with water spray/remove them into safety. Fight fire with normal precautions from a reasonable distance. Under fire conditions, hazardous fumes will be present. Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective

Equipment:

Use appropriate personal protection equipment (PPE).

Measures for Environmental

Protection:

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

Measures for Cleaning/Collecting:

Contain released product. Plug the leak, cut off the supply. Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.

Conditions for Safe Storage:

Comply with applicable regulations. Store in a dry place. Keep cool. Keep container closed when not in use. Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not store near food, foodstuffs, drugs or potable water supplies. Store in a well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

ETHYLENE GLYCOL 107-21-1

ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³
ACGIH	Remark (ACGIH)	Upper respiratory tract (URT) & eye irritant.
OSHA	Not Applicable	

Breathing Equipment:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

Protection of Hands:

Wear suitable gloves resistant to chemical penetration.

Eye Protection:

Chemical goggles or safety glasses.

Additional Recommendations:

Wear suitable protective clothing.



9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties:

Physical State:	Liquid
Color:	Green
Odor:	No Data Available
Odor Threshold:	No Data Available
Freezing Point:	-12.9°C (8.8°F)
Boiling Point:	162°C (325°F)
Flash Point:	102°C (216°F)
Evaporation Rate:	No Data Available
Flammability:	No Data Available
Auto-Ignition Temperature:	No Data Available

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Decomposition Temperature:	No Data Available
Vapor Pressure:	10 mmHg at 20°C (68°F)
Vapor Density:	2.1 (air = 1)
Solubility:	Completely soluble in water.
Specific Gravity:	1.110-1.145
Kinematic Viscosity @ 40°C, cSt	No Data Available
Viscosity, Dynamic:	No Data Available

10. STABILITY AND REACTIVITY

Reactivity: No dangerous reactions known under normal conditions of use.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Storage below 15.5°C (60°F) or above 65.5°C (150°F).

Incompatible Materials: Keep away from strong acids, strong bases and oxidizing agents.

Hazardous Decomposition

Products: Carbon dioxide. Carbon monoxide. Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

ETHYLENE GLYCOL 107-21-1:

Skin	LD50 Dermal - rabbit - 10,626 mg/kg
Eyes	Eyes - rabbit - Mild eye irritation - 24 h
Respiratory	Not Available
Ingestion	LD50 Oral - rat - 4,700 mg/kg

Skin Irritation: Not Classified

Eye Irritation: Not Classified

Inhalation: Not Classified

Ingestion: Not Classified

Reproductive

Toxicity: Not Classified

Carcinogenicity: ETHYLENE GLYCOL 107-21-1:

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IARC	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No components of this product present at levels greater than or equal to 0.1% is identified as a known a carcinogen or potential carcinogen by OSHA.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

STOT-Single

Exposure: Not Classified

STOT-Repeated

Exposure: Not Classified

Aspiration

Hazard: Not Classified

Signs & Symptoms of Exposure:

Skin: Brief contact is not irritating ON CONTINUOUS EXPOSURE/CONTACT: May cause respiratory irritation.

Eyes: Eye burns, watering eyes, redness.

Respiratory: Irritation of nose and/or throat Contact during a long period may cause light irritation.

Ingestion: Toxic when swallowed. Lethal dose for adults is 1-2mL per kilogram. Symptoms of exposure may include headache, weakness, confusion, nausea, dizziness, staggering gait, slurred speech, loss of concentration, faintness, vomiting, increased heart rate, decreased blood pressure, difficulty breathing, pulmonary edema. Severe poisoning may cause death.

12. ECOLOGICAL INFORMATION

Toxicity: Ecology-General:

ETHYLENE GLYCOL 107-21-1:

Aquatic Vertebrate	LC50 - Oncorhynchus mykiss (rainbow trout) - 18,500 mg/l - 96 h LC50 - Leuciscus idus (Golden orfe) - > 10,000 mg/l - 48 h NOEC - Pimephales promelas (fathead minnow) - 32,000 mg/l - 7 d NOEC - Pimephales promelas (fathead minnow) - 39,140 mg/l - 96 h
Aquatic Invertebrate	EC50 - Daphnia magna (Water flea) - 74,000 mg/l - 24 h NOEC - Daphnia - 24,000 mg/l - 48 h LC50 - Daphnia magna (Water flea) - 41,000 mg/l - 48 h
Terrestrial	Not Available

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Persistence and Degradability:	Biodegradable.
Bioaccumulative Potential:	Not Available
Mobility in Soil:	Not Available
PBT and vPvB Assessment:	Not Available
Other Adverse Effects:	Not Available

13. DISPOSAL CONSIDERATIONS

Product/Packaging Disposal

Recommendations:	Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations.
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14. TRANSPORT INFORMATION

Department of Transportation (DOT):

Transport Document Description:	UN3082 Environmentally hazardous substances, liquid, n.o.s., 9, III
UN-No.:	UN3082
Proper Shipping Name:	Environmentally hazardous substances, liquid, n.o.s.
Hazard Class:	9 - Class 9 - Miscellaneous hazardous material 49 CFR 173. 140
Hazard Labels:	9 - Class 9 (Miscellaneous dangerous mater



Packing Group:	III - Minor Danger
Packaging Non-bulk:	203
Packaging Bulk:	241
Symbols:	G - Identifies PSN requiring a technical name
Packaging Exceptions:	155
Quantity Limits:	No Limit
Vessel Stowage:	A - May be stowed "on deck" or "under deck" on a vessel
TDG:	Refer to current TDG Canada for further Canadian regulations
Maritime Transport IMDG:	Not regulated by IMDG (in quantities under 5000 lbs in any one inner package)

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Air Transport ICAO-TI and IATA-DGR: Not regulated by IATA (in quantities under 5000 lbs in any one inner package)

Land Transport ADR/RID: Non Bulk: not regulated by the U.S. DOT (in quantities under 5000 lbs in any one inner package)

15. REGULATORY INFORMATION

U.S. Federal Regulations:

TSCA Inventory Status: Ingredients listed on TSCA inventory
DSCL(EEC): Ingredients listed on DSCL inventory
SARA 302: Not listed
SARA 304: Not listed
SARA 311: Immediate (acute) health hazard
SARA 312: Delayed (chronic) health hazard
SARA 313: Ethylene glycol is subject to Form R reporting

International Regulations:

Canada WHMIS: Class D-2A: Poisonous and infectious material- Other effects- Very toxic
Class D-1B: Poisonous and infectious material- Immediate and serious effects- Toxic

EU: No Information available

U.S. State Regulations:

California WARNING: This product contains, or may contain, substance(s) known
Prop 65: to the State of California to cause cancer, developmental toxicity and/or
reproductive toxicity:



Substance: Ethylene Glycol (107-21-1)

Carcinogens List: No

Developmental Toxicity: Yes

Male Reproductive Toxicity: No

Female Reproductive Toxicity: No

Non-Significant Risk Level (NSRL): N/A

Please refer to Sections 2, 8, and 11 for health & exposure risks, for more information,

see: www.P65Warnings.ca.gov

Others:

Massachusetts Right to know list: Listed

New Jersey Right to know hazardous substance list: Listed

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Pennsylvania Right to know list - environmental hazard list: Listed

16. OTHER INFORMATION

NFPA

Health Hazard: 1 - Materials that, under emergency conditions, can cause significant irritation.

Fire Hazard: 1-Must be preheated before ignition can occur.

Reactivity: 0-Normally stable, even under fire exposure conditions, and are not reactive with water.

NS Symbol: N/A



Disclaimer: We believe that the information herein is factual but is not intended to be all inclusive. Because safety handling, storing or using the material should satisfy themselves that they have current information regarding the particular way the material is handled, stored or used and that the same is done in accordance with federal, state and local law.

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