Coburn Technologies, Inc.
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South Windsor, CT 06074
1-800-262-8761

Safety Data Sheet
Antifreeze Chiller

1. IDENTIFICATION

Synonyms **none**
Material Use **Coolant**

IN AN EMERGENCY CALL: INFOTRAC 1-800-535-5053

2. HAZARD IDENTIFICATION

GHS Class

Acute toxicity, Oral (4)
Skin Irritant (2)
Specific target organ systemic toxicity-single exposure, Oral, Central nervous system, kidney (1)
Specific target organ systemic toxicity-repeated exposure, Oral, Kidney (2)

Signal Words & Hazard Statements

WARNING: Harmful if swallowed. (H302)
WARNING: Causes skin irritation. (H315)
DANGER: Causes damage to organs (Central nervous system, kidney) if swallowed. (H370)
WARNING: May cause damage to organs (kidney) through prolonged or repeated exposure if swallowed. (H373)

GHS Precautionary Statements for Labeling

P264	**Wash hands thoroughly after handling.**
P270	**Do not eat, drink or smoke when using this product.**
P280	**Wear face protection.**
P260	**Do not breathe dust/fume/gas/mist/vapors/spray.**
P301, P312	**If swallowed: Call a POISON CONTROL CENTER or doctor.**
P330	**Rinse mouth.**
P302, P352	**If on skin: Wash with plenty of water.**
P332, P313	**If skin irritation occurs: Get medical advice/attention.**
P362, P364	**Take off contaminated clothing and wash it before reuse.**
P307, P311	**If exposed: Call a POISON CONTROL CENTER or doctor.**
P314	**Get medical advice/attention if you feel unwell.**

3. COMPOSITION

	CAS NUMBER	%
Ethylene Glycol	107-21-1	95-100
Diethylene Glycol	111-46-6	<5

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4. FIRST AID

SKIN: Wash with plenty of water. Remove contaminated clothing and do not reuse until thoroughly cleaned or laundered. Seek medical help promptly if there is persistent itching or redness in the affected area.

EYES: Wash eyes with plenty of water, holding eyelids open. Seek medical assistance if there is any irritation.

INHALATION: Remove from contaminated area promptly. **CAUTION: Rescuer must not endanger himself!** If victim's breathing stops, administer artificial respiration and seek medical aid promptly.

INGESTION: Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.

NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity product. The stomach should only be emptied under medical supervision, after the installation of an airway to protect the lungs.

5. FLAMMABILITY & FIRE-FIGHTING

Flash Point	232 deg F (111 deg C)
Autoignition Temperature	748 deg F (398 deg C)
Flammable Limits	Lower explosion limit: 3.2% vol Upper explosion limit: 15.3% vol
Firefighting Precautions	foam, dry chemical, water spray, sand; firefighters must wear SCBA
Special Instructions	Mist in air is a moderate fire and explosion hazard. Individuals should perform only those fire-fighting procedures for which they have been trained. Fire fighters should wear self-contained breathing apparatus in the positive pressure mode with a full facepiece when there is a possibility of exposure to smoke, fumes or hazardous decomposition products. Cool tanks and containers exposed to fire with water. Cool containers with flooding quantities of water until well after fire is out.

6. ACCIDENTAL RELEASE MEASURES

Leak Precaution	dike to control spillage and prevent environmental contamination
Handling Spill	Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

7. HANDLING & STORAGE

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

8. EXPOSURE CONTROL & PERSONAL PROTECTION

ACGIH TLV	100 mg/m^3 aerosol only	ACGIH STEL	not listed
OSHA PEL	not listed	OSHA STEL	not listed

Ventilation	mechanical ventilation is probably not required, if TLV is not exceeded
Hands	protective gloves
Eyes	goggles or safety glasses with side shields – *always protect the eyes*
Clothing	wear appropriate protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Odor & Appearance	clear, colorless liquid with a slightly sweet odor
Odor Threshold	N/A
Vapor Pressure	0.1hPa (0.1 mm Hg) at 77 deg F (25 deg C)
Evaporation Rate (*Butyl Acetate = 1*)	N/A
Vapor Density (air = 1)	N/A
Boiling Range	387.3 deg F (197.4 deg C)
Melting Point	9 deg F (-13 deg C)
Specific Gravity	1.11 g/cm^3
Water Solubility	Miscible
Log $P_{o/w}$ (Octanol/H_2O partition)	-1.36
Dynamic Viscosity	145 mm2/s at 77 deg F (25 deg C)
pH	N/A

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10. REACTIVITY

Dangerously Reactive With	Heat, sparks, open flames and strong oxidizing conditions.
Stability	stable; will not polymerize
Decomposition Products	Carbon dioxide. Carbon monoxide. Fume.
Conditions to Avoid	Strong oxidizer. Strong acids. Permanganates. Peroxides. Dichromates. Reactive sodium compounds. Sulfur compounds. Alkali metals. Nitrates.

11. TOXICITY INFORMATION

i. *ACUTE EXPOSURE*

Skin Contact	causes skin irritation
Eye Contact	not classified.
Inhalation	high vapor concentrations may cause irritation
Ingestion	Harmful if swallowed. Ingestion may include inebriation, nausea and vomiting, metabolic acidosis, and CNS depression. Tachycardia, hypertension, hyperventilation, hypoxia and renal failure are also possible.

ii. *CHRONIC EXPOSURE*

General	prolonged exposure may cause dermatitis or allergic skin reaction
Sensitizing	no known effect
Carcinogen/Tumorigen	not considered a tumorigen or a carcinogen in humans or animals
Reproductive Effect	no known effect
Mutagen	no known effect
Synergistic With	not known

12. ECOLOGICAL INFORMATION

Toxicity to fish	low acute toxicity
Bioaccumulation	not expected to bioaccumulate
Biodegradation	rapidly degradable
Mobility in soil, water	low potential for soil absorption expected

13. DISPOSAL CONSIDERATIONS

Waste Disposal	**do not flush to sewer**, recycle solvent if possible
Containers	***Warning: never cut, drill, weld or grind on or near this container, even if empty.***

14. TRANSPORT INFORMATION

Product Identification Number	**Not regulated.**
Shipping Name	
Classification	
Marine Pollution	***not a marine pollutant***
ERAP Required	***No***

15. REGULATIONS

SARA 302/304: RQ 5000lbs
SARA 311-312 Hazard Classification: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard
US EPCRA (SARA Title III) Section 313-Toxic Chemical list-reporting threshold Ethylene Glycol 1%
State Reporting

New Jersey's Right to Know	**listed**
Massachusetts' Right to Know	**listed**
Pennsylvania's Right to Know	**listed**
Canada DSL	**compliant**
U.S.A. TSCA	**compliant**

16. OTHER INFORMATION

Date of Preparation	**May 2015**
Date of Revision	**-**

Prepared for Coburn Technologies Inc.

last page of SDS

PLEASE ENSURE THAT THIS SDS IS GIVEN TO, AND EXPLAINED TO PEOPLE USING THIS PRODUCT.

EMERGENCY INFORMATION: INFOTRAC 1-800-535-5053