



Coburn Technologies, Inc.  
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## 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 <sup>3</sup> 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<sup>3</sup>
- Water Solubility** Miscible
- Log P<sub>o/w</sub> (Octanol/H<sub>2</sub>O partition)** -1.36
- Dynamic Viscosity** 145 mm<sup>2</sup>/s at 77 deg F (25 deg C)
- pH** N/A

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**10. REACTIVITY**

|                                     |   |
|-------------------------------------|---|
| Dangerously Reactive With Stability | Heat, sparks, open flames and strong oxidizing conditions. 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 | <b>do not flush to sewer</b> , recycle solvent if possible                                |
| Containers     | <b>Warning: never cut, drill, weld or grind on or near this container, even if empty.</b> |

**14. TRANSPORT INFORMATION**

|                               |                               |
|-------------------------------|-------------------------------|
| Product Identification Number | <b>Not regulated.</b>         |
| Shipping Name                 |                               |
| Classification                |                               |
| <b>Marine Pollution</b>       | <b>not a marine pollutant</b> |
| <b>ERAP Required</b>          | <b>No</b>                     |

**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**