

**1) Product Identification**

HeatLink® #01102/01105  
(>98% BOSS Propylene Glycol Antifreeze &  
<2% Enercon EC-471)  
Product Use: non toxic antifreeze

BOSS Lubricants  
112, 6303 30 Street SE, Calgary, AB T2C 1R4  
Emergency phone: 1-800-844-9457

Enercon Water Treatment Ltd.  
3606 - 6 Avenue North; Lethbridge, AB; T1H 5C4  
Emergency phone: Canutec 613-996-6666

Transportation of Dangerous Goods Classification:  
Non-regulated  
WHMIS classification: none

**2) Ingredients**

Chemical Name:	Cas#	%Range
Propylene glycol	000057-55-6	>98%
Sodium Molybdate	7631-95-0	<0.2%
Sodium Tolytriazole	64665-57-2	<0.1%
Sodium Hydroxide	1310-73-2	<0.05%

**3) Physical Data**

Physical state .....liquid  
Odour threshold..... N/D  
Specific gravity ..... N/D  
Density (at 20°C) ..... 1.038  
pH..... 9.5 to 10.5  
Solubility in water..... 100%  
Appearance and odor..... colorless and odorless  
Freezing point..... -32 °C 50/50  
Boiling point..... 187.3 °C  
Vapor pressure (at 20°C) ..... 0.029 kPa  
Vapor density (air=1) ..... 2.62  
Evaporation rate ..... N/D  
Coeff. of water/oil..... N/D

**4) Fire and Explosion Hazard Data**

Conditions of flammability:..... Flammable  
Extinguishing media:  

- Water
- Foam
- CO<sub>2</sub>
- dry chemical

Special procedures: Firefighters should wear positive pressure self-contained breathing apparatus.  
Flash point: .....103°C (method used: PMCC)  
Flammable limits in air % by volume: .....lower: 2.6  
..... upper: 12.5  
Auto ignition temp: (°C) ..... N/D  
Hazardous combustion products: Combustion may produce propionaldehyde, carbon monoxide in the presence of limited oxygen in a fire situation.  
Explosion data: ..... N/D  
Sensitivity to impact:..... N/D  
Sensitivity to static discharges:..... N/D

**5) Reactivity Data**

Stability (normal conditions): .....stable  
Conditions to avoid: ..... none currently known  
Conditions of reactivity: ..... normally unreactive  
Incompatibility (materials to avoid): .... Oxidizing materials  
Hazardous decomposition products: Propionaldehyde, carbon monoxides in the presence of limited oxygen in a fire situation. \*Hazardous polymerization will not occur.

**6) Toxicological Properties**

Route of entry:  

- skin contact
- absorbed by skin
- eye contact
- inhalation
- ingestion

Skin contact: Prolonged contact is essentially non irritating to skin. Repeated exposure may cause slight flaking, tenderness, and softening of skin.  
Eye contact: May cause slight transient (temporary) eye irritation. Corneal injury is unlikely.  
Skin absorption: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. The LD50 for skin absorption in rabbits is 10 g/kg.  
Inhalation: May aggravate cases of emphysema and bronchitis.  
Ingestion: Single dose oral toxicity is low. The oral LD50 for rat is 21 - 33.7 g/kg. High doses can provoke headaches, drowsiness, nausea, dizziness and fainting.

### 7) Preventative Measures

Personal protective equipment:

- eye protection
- gloves
- clothing

Respiratory protection: ..... N/D

Ventilation requirements: Adequate ventilation required

Spill and leak procedures: Wear suitable protective equipment. Contain with an inert absorbent. Put the waste in a closed container until future disposal. Do not throw in the sewers or garbage.

Waste disposal: Use approved waste disposal service. Do not dispose in sewers nor in regular trashes.

Handling procedures: Wear rubber gloves and personal protective clothing. Use with adequate ventilation.

Storage requirements: In a cool, dry and well ventilated area. Keep away from incompatible material and from sources of ignition (naked flames, sparks, electricity). Keep the containers grounded especially during pumping and transfer operations.

### 8) First Aid Measures

Inhalation: Remove patient from contaminated area. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact a physician.

Eyes: Flush eyes with water for at least 15 minutes. Contact a physician immediately.

Skin: Remove contaminated clothing and wash with large amount of water. Contact a physician.

Ingestion: Do not induce vomiting. If spontaneous vomiting occurs, prevent the victim from inhaling their vomit. Keep victim at rest and warm. Call for medical assistance immediately and/or bring the victim to the hospital or the nearest poison center.

Note to physician: no specific antidote. Supportive care. Treatment based on judgement of the physician in response to reactions of the patient.

### 9) Other Information

None.

### 10) Preparation Information

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N/D - no data  
N/A - not applicable  
N/E - not established

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