

Section 01: Identification

Product Name: HeatLink #01205 (Enercon EC-471)
Recommended Use: Boiler Water Treatment

HeatLink Group Inc.
4603E - 13th Street NE
Calgary, AB, T2E 6M3

Enercon Water Treatment Ltd.
3606 - 6 Avenue North
Lethbridge, AB, T1H 5C4

Emergency Phone Number (Canutec): 613-996-6666

Section 02: Hazards Identification/Emergency Overview

GHS Classification:

Health Hazard:

- Skin corrosion/irritation category 2
- Serious eye damage/eye irritation category 2
- Acute toxicity, oral category 4
- Acute toxicity, dermal category 5
- Acute toxicity, inhalation category 5



Hazard Statements:

- H303: May be harmful if swallowed
- H313: May be harmful in contact with skin
- H315: Causes skin irritation
- H320: Causes eye irritation
- H333: May be harmful if inhaled

Signal Word:Warning

Precautionary Statement:

Prevention

- P264: Wash hands thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P280: Wear protective gloves and eye protection.

Response

- P301+P330+P312: **IF SWALLOWED:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell.
- P302+P352: **IF ON SKIN:** Wash with plenty of soap and water.
- P332+P313: **If skin irritation occurs:** Get medical advice/attention.
- P304+P312: **IF INHALED:** Call a POISON CENTER or physician if you feel unwell.
- P305+P338+P351: **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P337+P313: **If eye irritation persists:** Get medical advice/attention.
- P362: Take off contaminated clothing and wash before reuse.

Storage

See Section 07.

Disposal

P501: Dispose of contents/container in accordance with local/regional/national regulations.

Section 03: Composition/Information on Ingredients

Ingredient	% Conc.	C.A.S. #
Sodium Molybdate	5 - 10	10102-40-6
Sodium Hydroxide	0.1 - 1	1310-73-2
Sodium Tolytriazole	0.1 - 1	64665-57-2

Section 04: First Aid Measures

Skin: Flush skin thoroughly for at least 15 minutes. Remove contaminated clothing. Seek medical attention if irritation occurs or persists.

Eyes: Flush eyes with running water for at least 15 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek medical attention immediately.

Inhalation: Assist difficult breathing by removing casualty to fresh air. Administer oxygen to casualty experiencing breathing difficulty. Perform artificial respiration if breathing stops. Seek medical attention if irritation or breathing difficulties persist.

Ingestion: If swallowed, DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention immediately.

Section 05: Fire Fighting Measures

Flammable: Non-Flammable.

If yes, under what conditions: Not Applicable

Means of extinction: Standard procedure for chemical fires. Cool containers / tanks with water spray.

Hazardous combustion products: Avoid contact with acids, strong oxidizers and aluminum.

Special protective equipment and precautions for firefighters: Standard equipment for chemical fires.

Section 06: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: See Section 8.

Environment precautions: Avoid entry of product into the sewage system or water streams.

Methods and materials for containment and cleaning-up: Use appropriate tools to contain the spilled chemical, use absorbent material to absorb spilled chemical, dispose of absorbed material in a waste disposal container.

Section 07: Handling and Storage

Precautions for safe handling: Open and handle container with care. Do not eat, drink or smoke in the presence of open container. Follow routine safe-handling procedures.

Storage requirements: When not in use, keep container tightly closed in a dry, cool, well-ventilated area. Avoid contact with incompatible materials listed in Section 10. Store away from food, drink and ignition sources. Empty containers can retain product residue and may be hazardous.

Section 08: Exposure Controls/Personal Protection

Note: These recommendations provide general guidelines for handling this product. Personal protective equipment should be selected according to individual application of the material, safe handling practices to consider include: exposure potential, chemical concentration and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local, provincial and federal authorities.

Recommended Personal Protective Equipment:

Gloves: PVC or Nitrile Rubber

Respiratory: NIOSH approved respirator (fumes)
Eye: Chemical goggles or face shield
Footwear: Chemical resistant footwear
Clothing: Cover exposed skin
Engineering controls: Local mechanical exhaust ventilation
Other: Eyewash station and safety shower are proximal to workstation

Section 09: Physical and Chemical Properties

Physical State:.....Liquid
Appearance:Clear
Odor:Bland
Odor threshold: Not Available
pH @ 1:300: 11.00
Melting point / Freezing point (°C): >5° C
Initial boiling point and boiling range (°C): > 100
Flash point (°C): Not Applicable
Evaporation rate: < 1
Flammability: Non-Flammable
Upper/Lower flammability or explosive limits: Not Applicable
Vapor pressure (mmHg): Not Available
Vapor density (Air=1): Not Available
Relative density: Not Available
Solubility: Completely Soluble
Partition coefficient: n-octanol/water: Not Available
Auto-ignition temperature (°C): Not Available
Decomposition temperature: Not Available
Specific Gravity: 1.055

Section 10: Stability and Reactivity

Chemical stability under normal conditions: Stable.
If no, under what conditions: Avoid moisture and elevated temperatures.
Possibility of hazardous reactions: Normally stable.
Incompatible materials: Avoid contact with: acids, strong oxidizers and aluminum.
Reactivity and under what conditions: Stable
Hazardous decomposition products: Not Available.

Section 11: Toxicological Information

Hazardous Ingredients (Section 3):	LD50, (Oral)	LD50, (Dermal)	LC50, (Inhalation)
Sodium Molybdate	Not Available	Not Available	Not Available
Sodium Hydroxide	Not Available	1364 mg/kg (Rabbit)	Not Available
Sodium Tolytriazole	1980 mg/kg (Rat)	2000 mg/kg (Rabbit)	Not Available

Effects of acute exposure

Skin Contact: Slight Irritant
Skin Absorption: Not Applicable
Eye: Irritant
Inhalation: Slight Irritant (when fumes or mist inhaled)
Ingestion: Slight Irritant

Effects of chronic exposure

Chronic Exposure Overview: Chronic effects include allergic reactions (headaches, difficulty breathing, rapid heart rate and anaphylaxis) in susceptible individuals. Prolonged and repeated exposure can cause pneumonitis. Sulphite sensitive individuals may experience a severe allergic reaction.

Skin Contact: Irritant. Prolonged contact could result in irritated skin.

Skin Absorption: Not Applicable

Eye: Irritant. Prolonged contact will result in irritation to eye tissue.

Inhalation: Irritant. When present as fumes or mist, could be irritating to nose and throat. May cause coughing and discomfort in chest.

Ingestion: Irritant. Swallowing will cause irritation of throat and gastrointestinal tract.

Teratogenicity: Not Available

Reproductive toxicity: Not Available

Mutagenicity: Not Available

Carcinogenicity: This product does not contain ingredients considered carcinogenic, by the National Toxicity Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration.

Section 12: Ecological Consideration

Ecotoxicity (aquatic and terrestrial):..... Not Available

Persistence and degradability:..... Not Available

Bioaccumulative potential:..... Not Available

Mobility in soil:..... Not Available

Other adverse effects:..... Not Available

Section 13: Disposal Considerations

Waste Disposal: Dispose of this material and its container in accordance with local, provincial, and federal regulations.

Section 14: Transport Information

UN Number:..... Not Applicable

Shipping Name:..... Not Applicable

Packing Group:..... Not Applicable

Special Shipping Information: Freeze/Thaw Stable. Agitation Required.

Freeze at: -5° C

Section 15: Regulatory Information

This safety data sheet has been prepared in accordance with the GHS standards. All materials used appear on the Canadian DSL. Materials not listed are either non-hazardous or in concentrations of less than 0.1%.

Section 16: Other Information

Responsibility Statement

The information contained herein is provided as a guide to the handling of this product. It is our belief that the information provided in this safety data sheet is reliable. This product should not be used by any person who is not familiar with the contents of this safety data sheet, the recommendation found on the label or technical data sheet. No warranty of any kind is given or implied and HeatLink Group Inc. assumes no responsibility for damages, losses, injuries or events resulting from damages incurred from its use. The information on this material safety data sheet relates only to the specific material designated herein and does not relate to material use in combination with any other material or in any process.

Prepared By: Communication Dept.

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