

SAFETY DATA SHEET



ENERCON WATER TREATMENT LTD.

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EC-970

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Section 01: Identification

Product Name: EC-970

Recommended Use: Purging Compound (See Technical Data Sheet)

Section 02: Hazards Identification/Emergency Overview

Physical State: Liquid

GHS Classification:

Physical Hazard:

Corrosive to metal category 1

Health Hazard:

Skin- corrosion/irritation category 1

Eye- serious eye damage- category 1

Acute toxicity-category 4

Hazard Statements:

It may be fatal or harmful if swallowed. Skin and eye damage may occur. Avoid contact with acids.



Signal Word: **DANGER**

Precautionary Statement: Avoid contact with skin and eyes. Wear suitable clothing, gloves, eye protection and footwear. In the presence of vapours, avoid inhaling. Do not ingest.

Section 03: Composition/Information on Ingredients

Ingredient	% Conc.	C.A.S. #	Ingredient	% Conc.	C.A.S. #
Trisodium Phosphate	10 - 30	10101-89-0	EDTA	1 - 5	6381-92-6
Potassium Hydroxide	5 - 15	1310-58-3	Phosphate Ester Potassium Salt	1 - 5	66057-30-5

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 breathing difficulty occurs or persists. Ingestion: If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention if irritation occurs or persists.

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: Hydrogen, oxides of sodium and phosphorous. 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: Do not allow chemical to enter sewers or waterways. 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

Odour: Faint Odour threshold: Not Available

pH @ 10%: 13.12 Melting point / Freezing point (°C): -6° C

Initial boiling point and boiling range (°C): Not Available

Flash point (°C): Not Applicable

Evaporation rate: Not Available

Flammability: Non-Flammable

Upper / Lower flammability or explosive limits: Not Applicable

Vapour pressure (mmHg): Not Available

Vapour density (Air=1): Not Available

Relative density: Not Available

Solubility: Completely Soluble

Partition coefficient: n-octanol/water: Not Available

Auto-ignition temperature (°C): Not Applicable

Decomposition temperature: Not Available

Specific Gravity: 1.112

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: Strong acids, metallic magnesium, various metals such as: aluminum, magnesium and zinc.
 Reactivity and under what conditions: Contact with metallic metals liberates hydrogen.
 Hazardous decomposition products: Hydrogen, oxides of sodium and phosphorous.

Section 11: Toxicological Information

Hazardous Ingredients (Section 3):

	LD50, (Oral)	LD50, (Dermal)	LC50, (Inhalation)
Trisodium Phosphate	7400 mg/kg (Rat)	Not Available	Not Available
Potassium Hydroxide	365 mg/kg (Rat)	Not Available	Not Available
EDTA	2000 mg/kg (Rat)	Not Available	Not Available
Phosphate Ester Potassium Salt	Not Available	Not Available	Not Available

Effects of acute exposure

Skin Contact: Slight Irritant.
 Skin Absorption: Not Available
 Eye: Severe Irritant.
 Inhalation: Slight Irritation. (In presence of mist).
 Ingestion: Slight irritation to digestive tract.

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 will increase the chance of irritation occurring to skin, respiratory tract and digestive system. Prolonged contact with eye tissue could result in permanent eye damage.
 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: -6° 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 Enercon Water Treatment Ltd. 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.

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