

MATERIALS SAFETY DATA SHEET
For Electrolyte Solution

Identity: Electrolyte solution for high voltage aluminium electrolytic capacitors
BHC Specification: GABP500

Section 1

Manufacturer's Name: BHC Components LTD.
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Weymouth, Dorset, DT4 9TE, United Kingdom.
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Section 2 - Hazardous Ingredients / Identity Information

<u>Hazardous Components</u>	<u>CAS No.</u>	<u>Wt. %</u>
Ethylene Glycol	107 - 21 - 1	80 - 90
Boric Acid	10043 - 39 - 3	5 - 10
Azelaic Acid	123 - 99 - 9	2 - 8
Ammonia	1336 - 21 - 6	1 - 3
Minor Additives		< 0.5

Section 3 - Physical / Chemical Characteristics

Boiling Point 170 - 175 °C **Specific Gravity:** 1.11
Vapour Pressure 1.0 mm Hg @ 20 °C **Melting Point** NI
Vapour Density NI **Evaporation Rate (B.A = 1):** NI
Solubility in Water Soluble in warm water
Appearance and Odour Brownish liquid with glycol odour.

NI: No Information

Section 4 - Fire and Explosion Hazard Data

Flash Point: > 110 °C **Flammable Limits (%):** LEL 3 UEL 15
Extinguishing Media: Water fog, carbon dioxide, foam, or dry chemical media.
Special Fire Fighting Procedures: Wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing.
Unusual Fire and Explosion Hazards: Handle as a combustible liquid.

Section 5 - Reactivity Data

Stability	Unstable:	No	Conditions to Avoid
	Stable:	Yes	None

Incompatibility (Materials to Avoid): Strong oxidizing agents

Hazardous Decomposition or By-product

Dangerous fumes of nitrous oxide. Carbon monoxide on incomplete combustion.

Section 6 - Health Hazard Data

Routes of Entry: Inhalation? Yes **Skin?** Yes **Ingestion?** Yes

Health Hazard: Harmful if swallowed, inhaled or absorbed through skin. Inhalation can cause irritation and corrosion of nasal and respiratory tract. Mild skin irritation. Strong eye irritation.

Carcinogenicity: NPT? No **IARC Monograph?** No **OSHA Regulated?** No

Signs and Symptoms of Exposure Irritation to respiratory passages and eyes.

Medical Conditions Generally Aggravated by Exposure Unknown

Emergency and First Aid Procedures

Inhalation: Remove to fresh air.

Skin: Wash with soap and water

Eye: Immediately flush eyes with plenty of water for at least 15 minutes.

Section 7 - Precautions for Safe Handling and Use

Steps To Be Taken in Case Material Is Released or Spilled

Evacuate area. Only persons equipped with proper respiratory and eye/skin protection should be allowed in area. Dike area to contain spills. Recover spills on absorbents. Collect into suitable containers for disposal.

Waste Disposal Method

Disposal in an approved hazardous waste management facility.

Precaution to Be Taken in Handling and Storing, Other Precautions.

Avoid contact with eyes, skins and clothing.

Avoid breathing vapour or mist.

Keep container closed.

Section 8 - Control Measures.

Respiratory Protection

Self-contained breathing apparatus or organic canister mask.

Ventilation: **Local Exhaust** Recommended if heated

Mechanical (General) Desirable

Protective Gloves: Rubber **Eye Protection:** Goggles

Other Protection Clothing or Equipment

Work / Hygienic Practices Wash thoroughly after handling

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