



## MATERIAL SAFETY DATA SHEET

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### IDENTIFICATION

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SUBSTANCE: **ALUMINUM CHLORHYDRATE SOLUTION**

CAS#: 12042-91-0

MANUFACTURER: Gulbrandsen Technologies, Inc.  
2 Main Street  
Clinton, NJ 08809

PRODUCT INFORMATION: (908) 735-5458

TRANSPORTATION  
EMERGENCY (CHEMTREC): (800) 424-9300

REVISION DATE: 12/01/2002  
SUPERSEDES: 07/23/2002

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### INGREDIENTS

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<u>INGREDIENT</u>	<u>CAS #</u>	<u>PERCENTAGE</u>
Aluminum chlorhydrate	12042-91-0	25 - 50
Water	7732-18-5	50 - 75

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### PHYSICAL DATA

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BOILING POINT: 110°C (230°F)	pH (15% w/w): 4.0 - 5.0
MELTING POINT: -7°C (20°F)	SOLUBILITY IN WATER: Complete
SPECIFIC GRAVITY: 1.15 - 1.35	VAPOR PRESSURE: N/F <sup>1</sup>
% VOLATILE: 50 - 75 (water)	EVAPORATION RATE: N/F
VAPOR DENSITY: Air=1, N/F <sup>1</sup>	ODOR: None
APPEARANCE: Colorless to light yellow liquid	

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### FIRE AND EXPLOSION HAZARDS

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FLASH POINT: N/A<sup>2</sup>  
FLAMMABLE LIMITS IN AIR: UFL: N/A LFL: N/A (% BY VOLUME)  
EXTINGUISHING MEDIA: Will not burn; use materials appropriate for surrounding fire.  
SPECIAL FIRE FIGHTING INSTRUCTIONS: Cool exposed tanks with water.  
SPECIAL FIRE AND EXPLOSION HAZARDS: Possible formation of hazardous chlorine compounds.

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### REACTIVITY

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STABILITY: Stable  
DECOMPOSITION: Will not occur  
POLYMERIZATION: Will not occur  
INCOMPATIBILITY: N/F

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## HEALTH HAZARDS

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EXPOSURE LIMITS: The ACGIH TLV for soluble aluminum salts is 2 mg/m<sup>3</sup> as Al (8 hour time-weighted average).

**CARCINOGENICITY: None of the components of this material are listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.**

### TOXICOLOGY

- INGESTION: Effects of small amount are negligible; large amounts may injure slightly.  
EYE CONTACT: Eye contact results in mild irritation and redness.  
SKIN CONTACT: Skin contact may cause irritation. Skin may dry or crack due to astringent nature of material.  
INHALATION: Although unlikely to occur, inhalation may result in an adverse reaction to persons previously sensitized to the material.

### FIRST AID

- EYE: Immediately flush eyes for 15 minutes with plenty of water. Call a physician.  
SKIN: Flush skin with water. Remove contaminated clothing; wash before reuse.  
INHALATION: Remove to fresh air.  
INGESTION: None needed.

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## PERSONAL PROTECTION

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Adequate general ventilation should be provided to keep vapor and mists below exposure limits. Wear safety glasses with side shields. Wear a face shield if possibility of material splashing or spraying exists. Where there is possibility of skin contact, use the following as appropriate: gloves impervious to material (appropriate gloves include those made from neoprene and nitrile), apron, boots, hood, pants and jacket. Wear a NIOSH/OSHA approved respirator with a dust/mist cartridge if there is potential of exposure to mists in excess of applicable limits.

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## SPILL/LEAK PROCEDURE

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Review safety precautions before proceeding with cleanup. Use appropriate personal protection equipment.

Dike area around spill to prevent spreading, and use absorbent material to pick up spill.

DISPOSAL: Under the Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user to determine whether a substance should be classified as a hazardous waste at the time of disposal. This is due to the fact that product use, transformation, synthesis, mixtures, etc. may change the nature of the product. Dispose of waste in accordance with applicable federal, state, and local laws. This product would not be considered a hazardous waste if disposed of as shipped.

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## SHIPPING INFORMATION

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### DOT

PROPER SHIPPING NAME: N/A  
HAZARD CLASS: N/A  
UN/NA #: N/A  
DOT LABELS: N/A  
DOT PLACARDS: N/A

STORAGE CONDITIONS: Keep containers closed

