

Material Safety Data Sheet

Revision Issued: 12/16/2011 Supercedes: 10/23/2003 First Issued: 9/05/2003

Section I - Chemical Product And Company Identification

Product Name: HB-104C

CAS Number: N/A

HBCC MSDS No. CW02510



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Section II - Composition/Information On Ingredients

Chemical Name	CAS Number	%	Exposure Limits (TWAs) in Air		
			ACGIH TLV	OSHA PEL	STEL
Aluminum Chloride, Basic	1327-41-9	Major	2 mg/m ³	2 mg/m ³	N/A
Quaternary Ammonium Homopolymer	26062-79-3	5-15	N/A	N/A	N/A

Section III - Hazard Identification

Routes of Exposure: This product is irritating to the eyes, respiratory system and skin.

Summary of Acute Health Hazards

Ingestion: May be harmful if swallowed. Seek medical attention.

Inhalation: Avoid prolonged inhalation of heated vapors.

Skin: May cause irritation such as redness, eczema.

Eyes: May cause irritation.

Summary of Chronic Health Hazards: N/A

Medical Conditions Generally Aggravated by Exposure: May aggravate medical conditions such as rashes, allergies or other sensitive areas. Symptoms may include reddening, swelling of affected areas with possible itching, burning or other discomfort.

Note to Physicians: N/A

Section IV - First Aid Measures

Ingestion: If ingestion of a large amount does occur, seek medical attention. Do not induce vomiting.

Inhalation: Inhalation of mists into lungs may cause pulmonary disorder. Move victim to fresh air. Consult physician regarding any continued discomfort.

Skin: Flush thoroughly with plenty of water.

Eyes: Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek immediate medical attention.

Section V - Fire Fighting Measures

Flash Point: > 212°F, COC Method **Autoignition Temperature:** Not Defined

Lower Explosive Limit: Not Defined **Upper Explosive Limit:** Not Defined

Unusual Fire and Explosion Hazards: Does not burn in present state. If surrounding fire is hot enough – may generate HCl fumes. If fumes are present wear an OSHA/NIOSH approved full-face respirator with an acid gas cartridge or SCBA.

Extinguishing Media: Dry chemical, foam, carbon dioxide, water fog

Special Firefighting Procedures: Firefighters should wear full protective clothing including self-contained breathing apparatus.

Section VI - Accidental Release Measures

Absorb spill with inert material. Shovel material into appropriate container for disposal. Remove spills promptly as they make floors slippery. Several washes and/or the use of detergents may be necessary to completely clean any spill.

Section VII - Handling and Storage

Treat as an acid. Avoid contact with metal, as product will corrode stainless steel, iron, brass, copper, aluminum mild steel. Avoid skin and eye contact. Wear appropriate protective clothing. Hydrochloric acid vapor may accumulate in storage containers. Keep container tightly closed when not in use.

Section VIII - Exposure Controls/Personal Protection

Respiratory Protection: Not required under normal operating conditions. Avoid formation of mists. Wear a NIOSH/OSHA approved respirator with a dust/mist cartridge if there is potential of exposure to mists in excess of applicable limits.

Ventilation: Provide adequate general ventilation to minimize worker exposure and to keep vapor and mists below exposure limits.

Protective Clothing: Skin contact should be minimized. Impervious gloves (rubber or neoprene) are recommended

Other Protective Clothing or Equipment: Safety glasses with side shields or goggles.

Work/Hygienic Practices: Wash hands thoroughly with soap and water before eating, drinking, smoking or using toilet facilities. Do NOT place food, coffee or other drinks in the area where dusting or splashing of solutions is possible.

Section IX - Physical and Chemical Properties

Physical State: Liquid

pH: 3.5

Melting Point/Range: -5°F

Boiling Point/Range: 220°F

Appearance/Color/Odor: White viscous liquid, no odor

Solubility in Water: Water Soluble

Vapor Pressure (mmHg): N/A

Specific Gravity (Water=1): 1.34 (water = 1)

Molecular Weight: N/A

Density (Air=1): N/A

% Volatiles: N/A

Evaporation Rate, (Bu-Ac=1): < 1 (butyl acetate = 1)

How to detect this compound :
N/A

Section X - Stability and Reactivity

Stability: Stable under usual application conditions

Hazardous Polymerization: Will not occur

Conditions to Avoid: N/A

Materials to Avoid: Avoid contact with chlorite/hypochlorite/sulphite/oxidizing agents. Reacts with caustic, evolving heat and precipitating aluminum hydroxide.

Hazardous Decomposition Products: Thermal decomposition generates (HCl) fumes.

Section XI - Toxicological Information

Splashes irritate mucous membranes, eyes and respiratory organs.

Section XII - Ecological Information

N/A

Section XIII - Disposal Considerations

Incinerate or dispose of unadulterated product as a non-hazardous waste. Solidify and landfill according to local state and federal regulations. Contain and collect using absorbent material as needed.

Section XIV - Transport Information

DOT Proper Shipping Name: N/A

DOT Hazard Class/ I.D. No.: N/A

Section XV - Regulatory Information

Reportable Quantity: N/A

NFPA Rating: Health - 2; Flammability - 0; Instability - 0

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

Carcinogenicity Lists: No **NTP:** No **IARC Monograph:** No **OSHA Regulated:** No

Section XVI - Other Information

Synonyms/Common Names: N/A

Chemical Family/Type: N/A

Sections changed since last revision: II, III, IV, V, VII, VIII, X, XI, XV

IMPORTANT! Read this MSDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This MSDS has been prepared according to the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The MSDS information is based on sources believed to be reliable. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, [Hill Brothers Chemical Company](#) makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Also, additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks prior to use, and then to exercise appropriate precautions for protection of employees and others.