

**1. Product and company Identification**

Product Name : PAA-HCL-3L
Synonyms : Polyallylamine hydrochloride
Product Use : Coating for various substrates
Supplier : GHEN MATERIALS LLC
Address : 234 10th Street Suite 516
 Jersey City, NJ 07302 USA

General Information : TEL 201-604-6231 FAX 201-604-6266
Emergency Contact Number : TEL 1-800-255-3924(CHEMTEL 24 hours for USA, Canada)

2. Hazardous identification**GHS Classification:**

Health	Environmental	Physical
Skin Corrosion/Irritation- Category 1 Serious Eye Damage/Eye Irritation- Category 1 Acute Toxicity: Oral - Category 5	Aquatic Hazard (Acute) - Category 1	

GHS Label:**GHS Label****Signal Word**

- DANGER

Hazard Statements

- Causes severe skin burns and eye damage.
- Causes serious eye damage
- May be harmful if swallowed
- Very toxic to aquatic life.

Precautionary Statements

- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wash thoroughly after handling
- Avoid release to the environment
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing, Rinse skin with water/shower.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF exposed: immediately call a POISON Center or doctor/ physician.
- Wash contaminated clothing before reuse.
- Collect spillage
- Dispose of contents/container in accordance with local/ Federal regulations

3. Composition / Information on Ingredients



	Chemical name	Wt %	CAS No.
A	Homopolymer of 2-propen-1-amine hydrochloride	50	71550-12-4
C	Water	50	7732-18-5

4. First Aid Measures**Eye contact**

Gently rinses the affected eyes with clean water for at least 15 minutes.

Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible

A delay of only seconds may increase the injury.

Skin

Remove contaminated clothing, shoes and socks from affected area as quickly as possible.

Wash the affected area under running water.

If irritation persists, Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.

Inhalation

Not applicable because of non-volatile aqueous solution

Ingestion

Rinse mouth with water. Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.

5. Fire Fighting Measures**General information**

Keep personnel removed from and upwind of fire.

Firefighters should wear proper protective equipment.

Toxic gases (carbon monoxide, hydrogen chloride, sulfur oxides and nitrogen oxides) will form upon combustion.

Extinguishing Media

Use water spray, foam and dry chemical or carbon dioxide.

6: Accidental Release Measures**General information**

Use proper personal protective equipment as indicated in Section 8

Evacuate non-essential personnel.

Spills/Leaks

Absorb spill with inert material (e.g. dry sand or earth) then place in a chemical waste containers.

Prevent spills from entering sewers, watercourses or areas.

Biological treatment is not effective

7. Handling and Storage**Handling**

Avoid contact with skin or eyes.

To prevent contact, wear rubber gloves and protective eyeglasses or chemical safety goggles.

Make available in the work area emergency shower and eyewash.

Storage

Keep container tightly closed when in not use.



To avoid corrosive, store in closed acid-resistant (e.g. polyethylene) containers

8. Exposure Controls / Personal Protection**Engineering controls**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Personal protective equipment (PPE)

Eyes: Wear protective eyeglasses or chemical safety goggles

Skin: Wear appropriate rubber gloves to prevent skin exposure

Clothing: Wear appropriate protective clothing to prevent skin exposure

Respirators: for most condition, no respiratory protection should be needed.

9. Physical and Chemical Properties

Odor/Appearance	: Yellow-light brown viscous liquid, characteristic odor
Flashpoint	: not applicable
Auto ignition Temperature	: not occur
Boiling Point	: 100°C (212°F) (water)
Melting Point	: not applicable
Vapor Pressure	: not determined
Freezing point	: -10°C (14°F)
Vapor Density (Air=1)	: not determined
Viscosity (@100°C (212°F))	: about 7mPa.s
Specific Gravity	: 1.17
pH Value (5% aq.)	: about 2-3
Solubility in water	: very soluble
Flammability	: not flammable under normal conditions
Evaporation Rate (Water=1)	: not determined

10. Stability and Reactivity**Chemical stability**

Stable at room temperature in closed containers under normal storage and handling conditions.

Incompatible with Oxidizing agent, bases, metals and anionic materials.

Hazardous polymerization : Not occur

11. Toxicological Information**Acute Toxicity Values**

Oral LD₅₀ (mouse) = 1,600mg/kg

Other:

Mutagenic effects: Negative in the Ames test

Sub-chronic toxicity, chronic toxicity, carcinogenic effects, effects on the reproductive systems, teratogenic effects : not available

12. Ecological Information

Biodegradability : no data available

Bioaccumulation : no data available

Fish toxicity(oryzias latipes) 48hr-TLm 0.42 ppm

13. Disposal Considerations



Dispose of according to State, Local and EPA regulations. This material may be burned in a chemical incinerator equipped with an after-burner and scrubber. Do not dump into sewers, on the ground or into any body of water. Biological treatment is not effective.

14. Transport Information**U.S. Department of Transportation (DOT)**

UN Number : UN3265
Proper Shipping Name : CORROSIVE LIQUID, ACIDIC, ORGANIC, n.o.s. (Polyallylamine hydrochloride)
Class : Class 8
Packing Group : III
Label : CORROSIVE

15. Regulatory Information**U.S. Federal Regulations**

Toxic Substances Control Act (TSCA): All components of this product are included on the TSCA inventory.

SARA 313 Regulated Chemical(s)

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

International Regulations

Canadian Environmental Protection Act: All of the components of this product are included on the Canadian Domestic Substances list (DSL / NDSL).

16. Other Information

Hazardous Rating

Health : 2
Flammability : 0
Reactivity : 0

Disclaimer: The information contained herein is accurate to the best of our knowledge. My Company makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances.