

Safety Data Sheet (SDS)

Section 1. Identification

Product identifier: **PINNACLEAR**
Other means of identification: Aqueous solution based on: aliphatic polyamine
Recommended use: Water clarifier for swimming pools/spas. Coagulant; flocculation agent.
Supplier: Pinnacle Aquatic Group Inc.
102, 4116 – 64 Ave SE
Calgary AB T2C 2B3
1-855-453-1944
Emergency phone number: Canutec 24 hour number 613-996-6666

Section 2. Hazard Identification

According to Hazardous Products Regulations (HPR) (SOR/2015-17):

Classification of the Product

Aquatic Acute	3	Hazardous to the aquatic environment – acute
Aquatic Chronic	3	Hazardous to the aquatic environment - chronic

Label Elements

Hazard Statement:

H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P273	Avoid release to the environment.
------	-----------------------------------

Precautionary Statements (Disposal):

P501	Dispose of contents/container in accordance with local regulations.
------	---

Hazards Not Otherwise Classified

High risk of slipping due to leakage/spillage of product.

Section 3. Composition/Information of Ingredients

<u>Material</u>	<u>% by Weight</u>	<u>CAS Nr</u>
Methanamine, N-Methyl-, polymer with (chloromethyl) oxirane	27%-32%	25988-97-0

Section 4. First Aid Measures

- Inhalation: Move victim to fresh air and seek medical attention immediately.
- Skin Contact: Wash contaminated area thoroughly with soap and water for at least 15 minutes. Seek medical attention immediately. Wash clothing before wearing again.
- Eye Contact: Flush eye(s) for at least 15 minutes with eye held open. Seek medical attention immediately.
- Ingestion: NEVER give anything by mouth if victim is rapidly losing consciousness, is unconscious or convulsing. Rinse mouth thoroughly. Have victim drink two glasses of water. If vomiting occurs, have victim lean forward to reduce the risk of aspiration. Seek medical attention immediately.

Most important symptoms and effects, both acute and delayed.

- Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.
- Hazards: No hazard is expected under intended use and appropriate handling.

In all cases, take this document when seeking medical attention.

Note to physician: Treat according to symptoms (decontamination, vital functions). No known specific antidote.

Section 5. Fire Fighting Measures

Extinguishing Media: Dry powder, foam, water spray. If water is used, restrict pedestrian and vehicular traffic in areas where slip hazard may exist.

Special Fire Fighting Procedures: During a fire, irritating/toxic smoke and fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece. The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with local regulations.

Section 6. Accidental Release Measures

High risk of slipping due to leakage/spillage of product.

Personal Precautions: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Remove all ignition sources. Remove or isolate flammable and combustible materials. All persons dealing with clean-up should wear the appropriate protective equipment.

Methods for Containment and Clean-Up: Contain and absorb any spilled liquid concentrate with absorbent material, then place material into a container for later disposal. Contaminated absorbent material may pose the same hazards as the spilled product. For large amounts, pump off product. Notify authorities as required.

Environmental Precautions: Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Section 7. Handling and Storage

Precautions for Safe Handling: No special measure necessary provided that product is used correctly.

Conditions for Safe Storage: Keep container tightly closed. Store in a cool place.

Storage Temperature: $\geq 0^{\circ}\text{C}$. Protect from temperatures below 0°C . Avoid freezing; frost sensitive.

Section 8. Exposure Controls & Personal Protection

No occupational exposure limits known.

Respiratory Protection: Wear a NIOSH-certified respirator as necessary.

Skin Protection: Wear chemical resistant protective gloves.

Eye Protection: Safety goggles (splash goggles) with side shields.

Body Protection: Body protection dependent on activity and possible exposure, eg: apron, protecting boots, chemical protection suit (according to EB 14605 in case of splashes of EN ISO 13982 in case of dust).

General Safety & Hygiene Measures: Handle in accordance with good industrial and safety practice. Wearing of closed work clothing is recommended. Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or tobacco use at the work place.

Section 9. Physical and Chemical Properties

Colour:	Blue
Form:	Liquid
Odour:	Slight amine odor
Odour threshold:	No data available
pH Value:	7
Evaporation Rate:	Value can be approximated from Henry's Law Constant or vapour pressure
Flash Point:	$>100^{\circ}\text{C}$. The product has not been tested. The statement has been derived from the properties of the individual components.
Sublimation Point:	No data available
Self-Ignition Temp:	Not self-igniting
Melting Point:	$<-3^{\circ}\text{C}$
Boiling Point:	$>100^{\circ}\text{C}$
Flammability:	Not flammable
Vapour Pressure:	Not Tested
Density:	$1.2\text{ g/cm}^3 (20^{\circ})$
Vapour Density:	Not tested
Relative Density:	No data available
Partitioning Coefficient	
Noctanol/water (log Pow):	Study scientifically not justified.
Viscosity, dynamic:	Not tested
Solubility in Water:	miscible
Solubility (quantitative)	No data available
Solubility (qualitative)	No data available

Lower Explosion Limit:	For liquids not relevant for classification and labelling. The lower explosion point may be 5-15°C below the flash point.
Upper Explosion Limit:	For liquids not relevant for classification and labelling.
Autoignition:	Not determined.
Thermal Decomposition:	No decomposition if stored and handled as prescribed/indication.

Section 10. Stability and Reactivity

Reactivity: No hazardous reactions if stored and handled as prescribed/indicated. Corrosion to metals: no corrosive effect on metal. Oxidizing properties: not fire propagating.

Chemical Stability: The product is stable if stored and handled as prescribed/indicated. Peroxides: 0.0%. The product does not contain peroxides.

Conditions to Avoid: Avoid temperature extremes, especially freezing conditions.

Possibility of Hazardous Reactions: No hazardous reactions known when stored and handled according to instructions.

Incompatible Materials: Reactive chemicals, strong oxidizing agents.

Hazardous Decomposition Products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Section 11. Toxicological Information

Acute Oral Toxicity: LD₅₀ (Oral-Rat):	>6110mg/kg
Skin Irritation:	Species: rabbit. Result: non-irritant
Eye Irritation:	Species: rabbit. Result: non-irritant
Skin Sensitization:	Based on ingredients, there is no suspicion of a skin sensitizing potential.
Aspiration Hazard:	No aspiration hazard expected.

Repeated Dose Toxicity: Assessment of repeated dose toxicity: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statement has been derived from the properties of the individual components. Experimental/calculated data: Not evaluated.

Genetic Toxicity: Based on ingredients, there is no suspicion of a mutagenic effect.

Carcinogenicity: The whole of the information assessable provides no indication of a carcinogenic effect.

Reproductive Toxicity: Based on ingredients, there is no suspicion of a toxic effect on reproduction.

Section 12. Ecological Information

Acutely harmful for aquatic organisms. May cause long-term adverse side effects in the aquatic environment.

Toxicity to Fish: 96 h/LC₅₀:> 10 mg/l

Toxicity to Aquatic Invertebrates: Daphnia magna/48 h/LC₅₀: 22 mg/l

Biodegradation: The polymer component of the product is poorly biodegradable.

Mobility in Soil: Adsorption to solid soil phase is expected.

Other Eco Toxicological Advice: The product has not been tested. The statement has been derived from substances/products of a similar structure of composition.

Section 13. Disposal Considerations

Waste Disposal of Substance: Dispose of in accordance with federal, provincial and local regulations. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

Section 14. Transportation Information

Transportation of Dangerous Goods (TGDR):

Land TDG Classification: Not classified as a dangerous good.

Sea IMDG Classification: Not classified as a dangerous good.

Air IATA/ICAO Classification: Not classified as a dangerous good.

Section 15. Regulatory Information

Registration Status: Chemical DSL, CA released/listed

Section 16. Other Information:

SDS Prepared by:

Pinnacle Aquatic Group Inc.

SDS Prepared on: September 1, 2017