NAT URAL CHEMISTRY

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Clear & Perfect

CAS # Mixture

Product use Pool water clarifier

Manufacturer Natural Chemistry, Inc.
40 Richards Ave.

Norwalk, CT 06854 US Phone: (800) 753-1233

Emergency Phone: CHEMTREC (800) 424-9300

2. Hazards Identification

Emergency overview WARNING

EYE AND SKIN IRRITANT.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes Causes irritation.

Skin May cause irritation.

Inhalation May cause respiratory tract irritation.

Ingestion May cause stomach distress, nausea or vomiting.

Target organs Eyes. Skin. Respiratory system.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

OSHA Regulatory Status This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

Potential environmental effects This product has not been tested.

3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
1,2-Ethanediamine, polymer with (chloromethyl)oxirane and N-methylmethanamine	42751-79-1	7 - 13
Aluminum chlorhydrate	12042-91-0	10 - 30

4. First Aid Measures

First aid procedures

Eye contact Immediately flush with cool water. Remove contact lenses, if applicable, and continue

flushing for 15 minutes. Obtain medical attention if irritation develops or persists.

Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation

persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical

attention.

Ingestion Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is

convulsing. Obtain medical attention.

General advice If you feel unwell, seek medical advice (show the label where possible). Ensure that

medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with

eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties Not flammable by WHMIS/OSHA criteria.

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Extinguishing media

Suitable extinguishing media Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing media Not available

Protection of firefighters

Specific hazards arising from

the chemical

Not available

Protective equipment for

firefighters

Firefighters should wear full protective clothing including self contained breathing

apparatus.

Hazardous combustion products

Explosion data

May include and are not limited to: Oxides of carbon. Hydrogen chloride.

Sensitivity to mechanical

impact

Not available

Sensitivity to static discharge Not available

6. Accidental Release Measures

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do Personal precautions

not touch damaged containers or spilled material unless wearing appropriate protective

clothing. Keep people away from and upwind of spill/leak.

Environmental precautions

Methods for containment

Do not contaminate water.

Stop leak if you can do so without risk. Prevent entry into waterways, sewers,

basements or confined areas.

Before attempting clean up, refer to hazard data given above. Small spills may be Methods for cleaning up

absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

7. Handling and Storage

Handling Use good industrial hygiene practices in handling this material.

Keep out of reach of children. Store in a closed container away from incompatible Storage

materials.

8. Exposure Controls / Personal Protection

Ingredient(s) **Exposure Limits**

1,2-Ethanediamine, polymer with (chloromethyl)oxirane and N-methylmethanamine

ACGIH-TLV Not established

OSHA-PEL Not established

Aluminum chlorhydrate

Exposure limits

ACGIH-TLV Not established **OSHA-PEL**

Not established

Engineering controls

Use only under good ventilation conditions or with respiratory protection.

Personal protective equipment

Eye / face protection

Wear safety glasses with side shields.

Rubber gloves. Confirm with a reputable supplier first. Hand protection

Skin and body protection As required by employer code.

Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. When using do

not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance Clear.

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Color Light yellow Liquid **Form** Odorless Odor Not available Odor threshold **Physical state** Liquid 4 - 5 pН

Melting point Not available Freezing point Not available Not available **Boiling point** Not available Pour point Not available **Evaporation rate** Not available Flash point Not available **Auto-ignition temperature** Not available Flammability limits in air, lower, % by volume

Flammability limits in air, upper, %

by volume

Not available

Not available Vapor pressure Not available Vapor density

Specific gravity 1.09 9.07 Relative density

Octanol/water coefficient Not available Percent volatile Not available

10. Stability and Reactivity

This product may react with strong alkalies. Reactivity Possibility of hazardous reactions Hazardous polymerization does not occur. Stable under recommended storage conditions. Chemical stability

Conditions to avoid Heat, open flames, static discharge, sparks and other ignition sources. Do not mix with

other chemicals.

Incompatible materials Oxidizers. Metals. Alkaline materials.

Hazardous decomposition products May include and are not limited to: Oxides of carbon. Hydrogen chloride.

11. Toxicological Information

Component analysis - LC50 LC50 Ingredient(s) 1,2-Ethanediamine, polymer with (chloromethyl)oxirane Not available and N-methylmethanamine Aluminum chlorhydrate Not available Component analysis - Oral LD50 Ingredient(s) **LD50** 1,2-Ethanediamine, polymer with (chloromethyl)oxirane Not available and N-methylmethanamine

Aluminum chlorhydrate 9187 mg/kg rat

Effects of acute exposure

Causes irritation. Eve Skin May cause irritation.

Inhalation May cause respiratory tract irritation.

Ingestion May cause stomach distress, nausea or vomiting.

Sensitization Non-hazardous by WHMIS/OSHA criteria. Non-hazardous by WHMIS/OSHA criteria. Chronic effects Non-hazardous by WHMIS/OSHA criteria. Carcinogenicity

Mutagenicity Non-hazardous by WHMIS/OSHA criteria. Non-hazardous by WHMIS/OSHA criteria. Reproductive effects Non-hazardous by WHMIS/OSHA criteria. **Teratogenicity**

Name of Toxicologically Synergistic Not available

Products

12. Ecological Information

See below **Ecotoxicity Ecotoxicity - Freshwater Fish - Acute Toxicity Data**

Aluminum chlorhydrate 12042-91-0 96 Hr LC50 Brachydanio rerio: 100 - 500 mg/L [static]

Not available Persistence / degradability Not available Bioaccumulation / accumulation Mobility in environmental media Not available **Environmental effects** Not available Not available **Aquatic toxicity** Partition coefficient Not available Chemical fate information Not available Other adverse effects Not available

13. Disposal Considerations

Disposal instructions

Review federal, state/provincial, and local government requirements prior to disposal.

Waste from residues / unused products

Not available

Contaminated packaging

Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled

Products Regulations and the MSDS contains all the information required by the

Controlled Products Regulations.

WHMIS status Controlled

Class D - Division 2B WHMIS classification

WHMIS labeling



Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

Yes

chemical

This product is a "Hazardous Chemical" as defined by the OSHA Hazard **US Federal regulations**

Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

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Section 302 extremely No hazardous substance

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available
Clean Water Act (CWA) Not available

Inventory name

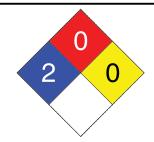
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information







Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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 15-Mar-2014

Prepared by Dell Tech Laboratories Ltd. (519) 858-5021

Other information For an updated MSDS, please contact the supplier/manufacturer listed on the first

page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.