

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Clear & Perfect

CAS # Mixture

Product use Pool water clarifier

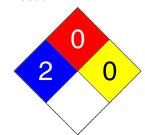
Manufacturer Natural Chemistry, Inc. 40 Richards Ave.
Norwalk, CT 06854 US
Phone: (800) 753-1233

Emergency Phone: CHEMTREC (800) 424-9300

LEGEND
HMIS/NFPA

Severe 4
Serious 3
Moderate 2
Slight 1
Minimal 0





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.

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. Rinse mouth with water, then drink one or two glasses of water.

Obtain medical attention. Never give anything by mouth if victim is unconscious, or is

convulsing.

Notes to physician Symptoms may be delayed.

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.

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

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

Hazardous combustion products

Explosion data

Not available

Sensitivity to mechanical impact

Sensitivity to static discharge

Not available

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective

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

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

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.

Storage

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

materials.

8. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s) **Exposure Limits**

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

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

Not established

Aluminum chlorhydrate

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.

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respiratory protection

#18144 Page 2 of 5 28-Mar-2008 Issue date

9. Physical & Chemical Properties

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

Melting point Freezing point Not available **Boiling point** Not available Flash point Not available Not available **Evaporation rate** Not available Flammability limits in air, lower, %

by volume

Flammability limits in air, upper, %

by volume

Not available

Vapor pressure Not available Not available Vapor density 1.09 Specific gravity

Relative density 9.07

Not available Octanol/water coefficient **Auto-ignition temperature** Not available Not available Percent volatile

10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Conditions to avoid 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.

Hazardous polymerization does not occur. Possibility of hazardous reactions

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

Eye Causes irritation. Skin May cause irritation.

May cause respiratory tract irritation. Inhalation

Ingestion May cause stomach distress, nausea or vomiting.

Sensitization Non-hazardous by WHMIS/OSHA criteria.

#18144 Page 3 of 5 Issue date 28-Mar-2008 Chronic effects

Non-hazardous by WHMIS/OSHA criteria.

Carcinogenicity

Non-hazardous by WHMIS/OSHA criteria.

Mutagenicity

Non-hazardous by WHMIS/OSHA criteria.

Reproductive effects

Non-hazardous by WHMIS/OSHA criteria.

Teratogenicity

Non-hazardous by WHMIS/OSHA criteria.

12. Ecological Information

Ecotoxicity Not available

Ecotoxicity - Freshwater Fish Species Data

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

Environmental effects

Aquatic toxicity

Persistence / degradability

Bioaccumulation / accumulation

Partition coefficient

Mobility in environmental media

Chemical fate information

Not available

Not available

Not available

13. Disposal Considerations

Waste codes Not available

Disposal instructions Review federal, provincial, and local government requirements prior to disposal.

Waste from residues / unused Not available

products

Contaminated packaging Not available

14. Transport Information

Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG)

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.

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

Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous Yes

chemical

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Nο

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

Section 302 extremely

hazardous substance

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available

#18144 Page 4 of 5 Issue date 28-Mar-2008

Clean Water Act (CWA)

Safe Drinking Water Act (SDWA)

Not available

Prod and Drug Administration

Not available

Not available

(FDA)

WHMIS status Controlled

WHMIS classification Class D - Division 2B

WHMIS labeling



State regulations

U.S. - New Jersey - Right to Know Hazardous Substance ListAluminum chlorhydrate 12042-91-0 sn 2232

Inventory name

Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

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

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#18144 Page 5 of 5 Issue date 28-Mar-2008