

SAFETY DATA SHEET

1. Product and Company Identification

Clear & Perfect Product identifier Not available Other means of identification Recommended use Pool water clarifier None known

Recommended restrictions

Manufacturer Natural Chemistry L.P. 40 Richards Ave.

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

Emergency Phone: CHEMTREC (800) 424-9300

2. Hazards Identification

Not classified. **Physical hazards**

Skin corrosion/irritation Category 2 **Health hazards**

> Serious eye damage/eye irritation Category 2A

Environmental hazards Not classified. **OSHA** defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Causes skin irritation. Causes serious eye irritation.

Precautionary statement

Prevention Wash thoroughly after handling. Wear protective gloves. Wear eye/face protection.

If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take Response

off contaminated clothing and wash before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye

irritation persists: Get medical advice/attention.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information Not applicable.

3. Composition/Information on Ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	%
Aluminum chlorhydrate		12042-91-0	18.64
1,2-Ethanediamine, polymer with (chloromethyl)oxirane and		42751-79-1	9.32
N-methylmethanamine			

4. First Aid Measures

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Call a physician if symptoms develop or persist.

Take off contaminated clothing and wash before reuse. Wash off with soap and water. Get medical Skin contact

attention if irritation develops and persists.

Immediately flush eyes with plenty of water for at least 15 minutes. Rinse with water. Remove Eye contact

contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation

develops and persists.

Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately. Ingestion

Get medical attention if symptoms occur.

#18144 Page: 1 of 7 Issue date 29-September-2014 Most important symptoms/effects, acute and delayed

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Suitable extinguishing media Unsuitable extinguishing

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

media Specific hazards arising from

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting

Move containers from fire area if you can do so without risk.

equipment/instructions Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards **Hazardous combustion** No unusual fire or explosion hazards noted.

products

May include and are not limited to: Hydrogen chloride.

Explosion data

the chemical

Sensitivity to mechanical

impact

May accumulate static charge.

Not available.

Sensitivity to static discharge

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up This product is miscible in water. Stop the flow of material, if this is without risk.

Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas.

Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

Precautions for safe handling

Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Use care in handling/storage.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure Controls/Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Aluminum chlorhydrate	TWA	1 mg/m3	Respirable fraction.
(CAS 12042-91-0)			

#18144 Page: 2 of 7 Issue date 29-September-2014 **US. NIOSH: Pocket Guide to Chemical Hazards**

Value Components Aluminum chlorhydrate **TWA** 2 mg/m3

Biological limit values

Appropriate engineering

(CAS 12042-91-0)

controls

No biological exposure limits noted for the ingredient(s).

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide

eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other As required by employer code.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Not applicable.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

9. Physical and Chemical Properties

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

3 - 4.5 pН

Initial boiling point and boiling

Melting point/freezing point

range

Not available. Not available.

Not available. Pour point Specific gravity 1.05 - 1.1Not available. Partition coefficient

(n-octanol/water)

Not available. Flash point Not available. **Evaporation rate** Not applicable. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Solubility(ies)

Not available.

Miscible

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%) Not available. Vapor pressure Not available. Vapor density 8.7 - 9.2 lb/gal Relative density

Auto-ignition temperature Not available. Not available. **Decomposition temperature** Not available **Viscosity**

10. Stability and Reactivity

Reactivity None known.

#18144 Page: 3 of 7 Issue date 29-September-2014 Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Chemical stability Material is stable under normal conditions. Conditions to avoid Contact with incompatible materials.

Incompatible materials

Hazardous decomposition

products

May include and are not limited to: Hydrogen chloride.

11. Toxicological Information

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

Information on likely routes of exposure

Expected to be a low ingestion hazard. Ingestion

Inhalation No adverse effects due to inhalation are expected.

Strong oxidizing agents.

Causes skin irritation. Skin contact

Causes serious eve irritation. **Eve contact**

Symptoms related to the physical, chemical and toxicological characteristics Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May

cause redness and pain.

Information on toxicological effects

Acute toxicity

Components **Species Test Results**

1,2-Ethanediamine, polymer with (chloromethyl)oxirane and N-methylmethanamine (CAS 42751-79-1)

Acute

Dermal

LD50 Not available

Inhalation

LC50 Not available

Oral

LD50 Not available

Aluminum chlorhydrate (CAS 12042-91-0)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg

Inhalation

LC50 Not available

Oral

LD50 Rat 1987 mg/kg

Causes skin irritation. Skin corrosion/irritation

Not available. **Exposure minutes** Not available. Erythema value Not available. Oedema value

Serious eye damage/eye

irritation

Causes serious eye irritation.

Not available. Corneal opacity value Not available. Iris lesion value Conjunctival reddening Not available.

value

Not available.

Conjunctival oedema value Recover days Not available.

Respiratory or skin sensitization

Respiratory sensitization Not classified.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

No data available to indicate product or any components present at greater than 0.1% are Mutagenicity

mutagenic or genotoxic.

#18144 Page: 4 of 7 Issue date 29-September-2014 Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

ACGIH Carcinogens

Aluminum chlorhydrate (CAS 12042-91-0)

A4 Not classifiable as a human carcinogen.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Teratogenicity

Specific target organ toxicity -

Not classified. Not classified.

single exposure

Specific target organ toxicity -

repeated exposure

Synergistic Products

Not classified.

Aspiration hazard Chronic effects **Further information** Name of Toxicologically Not classified.

Not classified. Not available.

Not available.

12. Ecological Information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity**

No data is available on the degradability of this product.

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

Bioaccumulative potential No data available. Mobility in soil No data available. Mobility in general Not available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of Disposal instructions

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

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

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

Regulations and the SDS contains all the information required by the Controlled Products

Regulations.

Canada WHMIS Ingredient Disclosure: Threshold limits

Aluminum chlorhydrate (CAS 12042-91-0) 1 %

WHMIS status Controlled

WHMIS classification Class D - Division 2B

WHMIS labeling



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

Standard, 29 CFR 1910.1200.

#18144 Page: 5 of 7 Issue date 29-September-2014 TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Hazard categories Immediate Hazard - Yes

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

SARA 302 Extremely

hazardous substance

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Safe Drinking Water Act

(SDWA)

Not regulated.

Food and Drug

Administration (FDA)

Not regulated.

US state regulations California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material

is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - California Hazardous Substances (Director's): Listed substance

Aluminum chlorhydrate (CAS 12042-91-0) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US - Minnesota Haz Subs: Listed substance

Aluminum chlorhydrate (CAS 12042-91-0) Listed.

US - Texas Effects Screening Levels: Listed substance

1,2-Ethanediamine, polymer with Listed.

(chloromethyl)oxirane and N-methylmethanamine

(CAS 42751-79-1)

Aluminum chlorhydrate (CAS 12042-91-0) Listed.

US. Massachusetts RTK - Substance List

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Aluminum chlorhydrate (CAS 12042-91-0) Listed.

US. Rhode Island RTK

Not regulated.

Inventory status

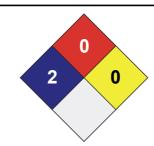
Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

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

16. Other Information







#18144 Page: 6 of 7 Issue date 29-September-2014

DisclaimerThe information in the sheet was written based on the best knowledge and experience currently

available. 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. 29-September-2014 01-October-2014

01-October-2017

Further information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.

Issue date

Expiry date

Effective date

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

Other information This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication

Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of

Chemicals (GHS).

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