



Aqua Chemical Supply, Inc.

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1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier Pro Series Pro Blend
Other means of identification Not available
Recommended use Pool Water Treatment
Recommended restrictions None known.
Manufacturer/Supplier/Distributor:
Natural Chemistry L.P.
40 Richards Ave.
Norwalk, CT 06854 US
Emergency telephone number: For emergency assistance involving chemicals call
CHEMTREC day or night at: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Physical hazards Not classified.
Health hazards Serious eye damage/eye irritation Category 2A
Serious eye damage/eye irritation Category 1
Environmental hazards Not classified.
OSHA defined hazards Not classified.
Label elements



Signal word Danger
Hazard statement Causes skin irritation. Causes serious eye irritation.
Precautionary statement
Prevention Wash thoroughly after handling. Wear eye/face protection. Wear protective gloves
Response If on skin: Wash with plenty of water. 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	%
Alcohols, C9-11, ethoxylated		68439-46-3	2.59
Zinc chloride		7646-85-7	1.56
Aluminum chlorhydrate		12042-91-0	1.38

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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.
Skin contact Wash off with soap and water. Take off contaminated clothing and wash before reuse. Get medical attention if irritation develops and persists.
Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

Most important symptoms/effects, acute and delayed - Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. 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 Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media None known.

Specific hazards arising from the chemical 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 equipment/instructions Move containers from fire area if you can do so without risk.

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

General fire hazards No unusual fire or explosion hazards noted.

Hazardous combustion products May include and are not limited to: Oxides of carbon.

Explosion data

Sensitivity to mechanical impact Not available

Sensitivity to static discharge Not available

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. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE

Precautions for safe handling Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with skin.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Zinc chloride (CAS 7646-85-7)	PEL	1 mg/m ³	Fume

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Aluminum chlorhydrate (CAS 12042-91-0)	TWA	1 mg/m ³	Respirable fraction.
Zinc chloride (CAS 7646-85-7)	STEL	2 mg/m ³	Fume.
	TWA	1 mg/m ³	Fume.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Aluminum chlorhydrate(CAS 12042-91-0)	TWA	2 mg/m ³	
Zinc chloride (CAS 7646-85-7)	STEL	2 mg/m ³	Fume.
	TWA	1 mg/m ³	Fume.

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

Appropriate engineering controls 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 Wear appropriate chemical resistant clothing.

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

Appearance	Cloudy
Physical state	Liquid.
Form	Liquid.
Color	Amber
Odor	Slight
Odor threshold	Not available.
pH	4.5 – 5.5
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available
Pour point	Not available.
Specific gravity	1.00 - 1.02
Partition coefficient (n-octanol/water)	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	Not available
Flammability limit – upper (%)	Not available
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available
Vapor density	Not available
Relative density	8.3 - 8.5 lb/gal
Solubility(ies)	Complete
Auto-ignition temperature	Not available
Decomposition temperature	Not available.
Viscosity	Not available

10. STABILITY AND REACTIVITY

Reactivity	None known.
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	Acids. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
Information on likely routes of exposure	
Ingestion	Expected to be a low ingestion hazard.
Inhalation	No adverse effects due to inhalation are expected.
Skin contact	May be irritating to the skin.
Eye contact	Causes serious eye irritation

Symptoms related to the physical, chemical and toxicological characteristics Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain Information on toxicological effects

Acute toxicity

Components	Species	Test Results
Alcohols, C9-11, ethoxylated (CAS 68439-46-3)		
Acute Dermal LD50	Rabbit	2000 mg/kg
	Rat	2000 mg/kg
Inhalation LC50	Rat	5 mg/l/4h
Oral LD50	Rat	1200 mg/kg

Aluminum chlorhydrate (CAS 12042-91-0)

Acute

Dermal LD50	Rabbit	>2000mg/kg
Inhalation LC50	Not available	
Oral LD50	Rat	1987 mg/kg

Zinc chloride (CAS 7646-85-7)

Acute

Dermal LD50	Not available	
Inhalation LC50	Not available	
Oral LD50	Guinea pig	200 mg/kg
	Mouse	350 mg/kg
	Rat	350 mg/kg

Skin corrosion/irritation Causes skin irritation

Exposure minutes Not available.

Erythema value Not available.

Oedema value Not available.

Serious eye damage/eye irritation Causes serious eye irritation.

Corneal opacity value Not available.

Iris lesion value Not available.

Conjunctival reddening value Not available.

Conjunctival oedema value Not available.

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.

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

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 Not classified.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not classified.

Chronic effects Not classified.

Further information Not available.

Name of Toxicologically Synergistic Products Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. See below.

Components	Species	Test Results
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Alcohols, C9-11, ethoxylated (CAS 68439-46-3)		
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Fish	Rainbow Trout	70.7 mg/l, 96 Hours
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Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	2.9 - 8.5 mg/l, 48 hours
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>)	6 - 12 mg/l, 96 hours
Zinc chloride (CAS 7646-85-7)			
Aquatic			
Crustacea	EC50	American or virginia oyster (<i>Crassostrea virginica</i>)	0.151 - 0.278 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (<i>Oncorhynchus mykiss</i>)	0.101 - 0.197 mg/l, 96 hours
Persistence and degradability		No data is available on the degradability of this product.	
Bioaccumulative potential		No data available.	
Mobility in soil		No data available	
Mobility in general		Not available.	
Other adverse effects		No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

13. DISPOSAL CONSIDERATION

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste 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). Contaminated packaging
	Empty containers should be taken to an approved waste handling site for recycling or disposal. 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

Canadian federal regulations	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.	
Canada CEPA Schedule I: Listed substance		
Zinc chloride (CAS 7646-85-7)	Listed.	
Canada Priority Substances List (Second List): Listed substance		
Zinc chloride (CAS 7646-85-7)	Listed.	
Canada WHMIS Ingredient Disclosure: Threshold limits		
Aluminum chlorhydrate (CAS 12042-91-0)	1 %	
Zinc chloride (CAS 7646-85-7)	1 %	
WHMIS status	Controlled	
WHMIS classification	Class D - Division 2B	
WHMIS labeling		



US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration		
Zinc chloride (CAS 7646-85-7)	1.0 % N982	
US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance		
Zinc chloride (CAS 7646-85-7)	Listed. N982	
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated.	
US CWA Section 311 Hazardous Substances: Listed substance		
Zinc chloride (CAS 7646-85-7)	Listed.	
US CWA Section 307(a)(1) Toxic Pollutants: Listed substance		
Zinc chloride (CAS 7646-85-7)	Listed.	
CERCLA Hazardous Substance List (40 CFR 302.4)	Zinc chloride (CAS 7646-85-7)	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) Hazard categories	
Immediate Hazard – Yes	Delayed Hazard – No
Fire Hazard - No	Pressure Hazard - No
Reactivity Hazard - No	
SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous chemical	No
SARA 313 (TRI reporting)	
Chemical name	CAS number % by wt.
Zinc chloride	7646-85-7 1.56
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. Zinc chloride (CAS 7646-85-7) Listed.
US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT):	Listed substance Not listed.
US - Illinois Chemical Safety Act:	Listed substance Zinc chloride (CAS 7646-85-7) Listed.
US - Louisiana Spill Reporting:	Listed substance Zinc chloride (CAS 7646-85-7) Listed.
US - Michigan Critical Materials Register:	Parameter number Zinc chloride (CAS 7646-85-7) 07440-66-6 Listed.
US - Minnesota Haz Subs:	Listed substance Aluminum chlorhydrate (CAS 12042-91-0) Listed.
Zinc chloride (CAS 7646-85-7)	Listed.
US - New Jersey RTK - Substances:	Listed substance Zinc chloride (CAS 7646-85-7) Listed.
US - New York Release Reporting:	Hazardous Substances: Listed substance - Zinc chloride (CAS 7646-85-7) Listed.
US - Texas Effects Screening Levels:	Listed substance
Alcohols, C9-11, ethoxylated (CAS 68439-46-3)	Listed.
Aluminum chlorhydrate (CAS 12042-91-0)	Listed.
Zinc chloride (CAS 7646-85-7)	Listed.
US. Massachusetts RTK - Substance List	Zinc chloride (CAS 7646-85-7) Listed.
US. Pennsylvania RTK - Hazardous Substances	
Aluminum chlorhydrate (CAS 12042-91-0)	Listed. Zinc chloride (CAS 7646-85-7) Listed.
US. Rhode Island RTK	Zinc chloride (CAS 7646-85-7) Listed.
Inventory status	
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

Notice

Aqua Chemical Supply, Inc. expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this SDS as a product specification. For product specification information refer to a product specification sheet and/or a certificate of analysis. These can be obtained from your local Aqua Chemical Supply, Inc. sales office.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Aqua Chemical Supply, Inc. makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Aqua Chemical Supply, Inc.'s control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable

for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.