

Product name ClearView Drop Out**Revision date** 5-27-15

Product ID: Drop Out

Synonyms: Aluminum Chloride, solution, Aluminum trichloride solution
Chemical Name: AlCl₃*6H₂O Solution
CAS Number: 7446-70-0
Product Use: Water Flocculent. Supercharged clarifier which collects cloud causing particles too small to be trapped within the filter.

Supplier: Oreq Corporation
42306 Remington Ave.
Temecula, CA 92532
951-296-5076

Emergency Phone# CHEMTREC 800-424-9300**Classification****OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Classification

Acute Toxicity – Oral	Category 4
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Corrosive to metals	Category 1

Physical State- Liquid **Color-** Colorless to Yellow **Appearance –** Clear **Odor –** No appreciable odor**EMERGENCY OVERVIEW****DANGER****Hazard Statement(s)**

H302: Harmful if swallowed
H314: Causes severe skin burns and eye damage.
H290: May be corrosive to metals

Precautionary Statement(s) - Prevention

P264: Wash skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P234: Keep only in original container.



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Precautionary Statement(s) - Response

P310: Immediately call a POISON CENTER or doctor/physician

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P303+P361+P353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P363: Wash contaminated clothing before reuse.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P330 - Rinse mouth

P331: Do NOT induce vomiting.

P391 - Collect spillage

Precautionary Statement(s) - Storage

P405: Store locked up.

P406: Store in a corrosive resistant/... container with a resistant inner liner.

Precautionary Statement(s) - Disposal

P501 - Dispose of contents/container in accordance with national and international regulations

Other Information- harmful to aquatic life with long lasting effects

CHEMICAL NAME	CAS#	Weight %	TRADE SECRET
Aluminum Chloride	7446-70-0	< 30%	*
Water	N/A	> 70%	*

- The exact percentage (concentration) of composition has been withheld as a trade secret.

Eye Contact:

Remove contact lenses, if worn. Immediately flush with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface. Washing within one minute is essential to achieve maximum effectiveness. Seek medical advice immediately.

Skin Contact:

Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

Ingestion:

Do NOT induce vomiting. If vomiting should occur spontaneously, keep the airway clear. Never give anything by mouth to an unconscious person. Get medical attention.

Inhalation:

Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a Physician.

Most important symptoms and effects, both acute and delayed



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Acute effects:

Possible eye, skin, and respiratory tract irritation or burns.

Chronic effects:

May aggravate existing skin, eye, and lung conditions. Persons with kidney disorders have an increased risk from exposure based on general information found on aluminum salts.

Indication of any immediate medical attention and special treatment needed

Notes to physician:

Aluminum soluble salts may cause gastroenteritis if ingested. Treatment includes the use of demulcents. Note: Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Extinguishing Media

Suitable Extinguishing Media: Water fog, carbon dioxide, foam, dry chemical.

Extinguishing Media which must not be used for safety reasons: No information available.

Special hazards arising from the substance or mixture

Special Hazard: May produce hazardous fumes or hazardous decomposition products.

Advice for Firefighters

Fire Fighting Measures: Product is a water solution and nonflammable. In a fire, this product may build up pressure and rupture asealed container; cool exposed containers with water spray. Use self-contained breathing apparatus in confined areas; avoid breathing mist or spray.

Special protective equipment fire-fighters: Full protective clothing and approved self-contained breathing apparatus for required for fire fighting personnel.

Explosion Data

Sensitivity to Mechanical Impact or Static Discharge None

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Wear suitable protective clothing and gloves.

Environmental Precautions:

Do not permit solutions of product into sewers or waterways.

Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Soak up with inert absorbent material. Shovel into labeled waste container for disposal. Provide adequate ventilation to spill area. Clean up residual material by washing area with water. Collect washings for disposal.

Precautions for safe handling

Advice on safe handling



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Keep container closed when not in use
Keep away from heat and open flame.
Avoid contact with eyes, skin and clothing
Wear chemical splash goggles, gloves, and protective clothing when handling
Wash thoroughly after handling
Avoid breathing mist or vapors
Use with adequate ventilation and employ respiratory protection where mist or spray may be generated
Do not take internally
FOR INDUSTRIAL USE ONLY

Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Do not store in unlined metal containers
Product may slowly corrode iron, brass, copper, aluminum, mild steel, and stainless steel.
Store in a cool, dry place away from heat

Incompatible products Alkalis.

Engineering Measures:

Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Please refer to the ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details. If there are no applicable or established exposure limit requirements or guidelines, general ventilation should be sufficient.

Eye/Face Protection:

Wear chemical splash goggles and face shield (when eye and face contact is possible due to splashing or spraying of material).

Hand Protection:

Appropriate chemical resistant gloves should be worn.

Skin and body protection:

Standard work clothing and work shoes.

Respiratory Protection:

If exposures exceed the PEL or TLV, use NIOSH/MSHA approved respirator in accordance with OSHA Respiratory Protection Requirements under 29 CFR 1910.134. If there are no applicable or established exposure limit requirements or guidelines, general ventilation should be sufficient.

Other Personal Protection Data:

Eyewash fountains and safety showers must be easily accessible.

Hygiene measures:

Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

Physical States:	Liquid	Vapor pressure:	No information available
Color:	Colorless to Yellow	Vapor density:	No information available
Appearance:	Clear	Specific Gravity:	1.27 - 1.29
Odor:	No appreciable Odor	Solubility (water):	Soluble



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Odor threshold No information available

pH: < 1 (as is)

Melting/Freezing Point: -35 °C / -31 °F

Boiling point/Boiling range: 104 °C / 220 °F

Flash Point: Not Applicable

Evaporation rate: No information available

Flammability (solid, gas) Not applicable

Flammability Limit in Air

Upper Flammability Limit Not applicable

Lower Flammability Limit Not applicable

Other information

Density: 10.59 - 10.76 lb/gal

Bulk density: No information available

Explosive properties No information available

Oxidizing properties No information available

Softening point No information available

Solubility in Other

Solvents:

No information available

Partition coefficient:

n-octanol/water

No information available

Autoignition Temperature:

Not Applicable

Decomposition Temperature:

Not Applicable

Kinematic viscosity:

No information available

Dynamic viscosity:

< 50 cps @ 20 °C

Molecular Weight:

No information available

Volatile organic compounds

(VOC) content:

No information available

Percent Volatile, wt.%:

48 - 52 %

Reactivity: No data available

Chemical Stability: Stable

Possibility of hazardous reactions None under normal processing

Hazardous Polymerization No

Conditions to Avoid None known

Incompatible Materials to Avoid Alkalis.

Hazardous Decomposition Products Thermal decomposition may release toxic and/or hazardous gases such as Cl₂ and HCl.

Information on likely routes of exposure

Eye Contact: Based on pH, this product is expected to cause severe eye irritation, possibly resulting in burns and eye damage. Prolonged exposure to Aluminum salts may cause conjunctivitis.

Skin Contact: Prolonged and/or repeated contact will cause severe skin irritation and burns.

Ingestion: Harmful if swallowed. May cause burns of the mouth, throat and stomach. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Inhalation: Inhalation of mist or spray may irritate respiratory tract and may cause burns and difficulty breathing.

Acute Toxicity – Product Information

Oral LD50 3700 mg/kg (rat) 1

3805 mg/kg (mouse) 2

Dermal LD50 No information available



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Inhalation LC50 No information available

Acute Toxicity – Component Information

Component / CAS#	Weight- %	Oral LD50	Dermal LD50	Inhalation LC50
Aluminum Chloride 7446-70-0	< 30%	380 mg/kg (Rat)	-	-

Information on toxicological effects

Symptoms: No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Causes Burns

Serious eye damage/eye irritation Risk of serious damage to eyes

Sensitization No information available

Germ cell mutagenicity No information available

Carcinogenicity This product does not contain any components in concentrations greater than or equal to 0.1% that are listed as known or suspected carcinogens by NTP, IARC, ACGIH, or OSHA.

Reproductive toxicity No information available

Specific target organ toxicity

Single exposure - No information available

Repeated exposure - No information available

Aspiration hazard No information available

Numerical measures of toxicity – Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 1357 mg/kg

ATEmix (dermal) 7150 mg/kg

Other Information: Conclusions are drawn from sources other than direct testing

1 Environmental Quality and Safety, Supplemental. (Academic Press, 111 5th., Ave., New York, NY 10003) V.1- 1975-
2 British Journal of Industrial Medicine. (British Medical Journal, 1172 Commonwealth Ave., Boston, MA 02134)V.1-1944

Ecotoxicity Harmful to aquatic life with long lasting effects

Acute aquatic toxicity – Product Information

Fish No information available



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Crustacea No information available

Algae/aquatic plants No information available

Acute aquatic toxicity – Component Information

Components / CAS#	Weight - %	Algae/aquatic plants	Fish	Toxicity to daphnia and other aquatic invertebrates:
Aluminum chloride 7446-70-0	< 30%	-	LC50 (96 h) 6.2 - 11.9 mg/L (Oncorhynchus mykiss) LC50 (96 h flow-through) 5.31 - 7.2 mg/L (Oncorhynchus mykiss) LC50 (96 h) = 27.1 mg/L (Gambusia affinis)	EC50 (48 h Static) = 3.9 mg/L (Daphnia magna)

Persistence and degradability No information available

Bioaccumulative potential No information available

Mobility No information available

PBT and vPvB assessment No information available

Other Information: No other ecological studies have been carried out on this product.

Waste treatment methods

Disposal of wastes

Do NOT mix with other chemical wastes. Avoid landfilling liquids. Do not put solutions containing this product into sewer systems. Dispose of product in an approved chemical waste landfill or incinerate in accordance with applicable Federal, state and local regulations.

Contaminated packaging

Do not re-use empty containers. Since emptied containers retain product residue, follow label warnings even after container is emptied.

RCRA Is the unused product a RCRA hazardous waste if discarded ? (Yes/NO) Yes
If yes, the EPA Hazardous Waste code is: D002 (corrosivity)

DOT: Regulated

DOT UN/NA Number: UN2581
Proper Shipping Name: ALUMINUM CHLORIDE SOLUTION
Hazard Class: 8
Packing Group: III
ERG#: 154



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ICAO/IATA: Regulated

UN Number: UN2581
Proper Shipping Name: ALUMINUM CHLORIDE SOLUTION
Hazard Class: 8
Packing Group: III
ERG Code 8L

IMDG: Regulated

UN Number: UN2581
Proper Shipping Name: ALUMINUM CHLORIDE SOLUTION
Hazard Class: 8
Packing Group: III
EmS F-A; S-B

Harmonized Tariff Number: 2827.32

International Inventories:

TSCA (United States) EINECS

All ingredients are on the inventory or exempt from listing

Australia (AICS)

All ingredients are on the inventory or exempt from listing

Canada (DSL)

All ingredients are on the inventory or exempt from listing

Canada (NDSL)

None of the ingredients are on the inventory

China (IECSC)

All ingredients are on the inventory or exempt from listing

(European Inventory of Existing Chemical Substances)

All ingredients are on the inventory or exempt from listing

ELINCS (European List of Notified Chemical Substances)

None of the ingredients are on the inventory

ENCS (Japan)

All ingredients are on the inventory or exempt from listing

South Korea (KECL)

All ingredients are on the inventory or exempt from listing

Philippines (PICCS)

All ingredients are on the inventory or exempt from listing

US Federal Regulations

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

SARA Section 311/ 312 Hazard Categories

Acute health hazard	Yes
Chronic health hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No



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Reactive hazard Yes

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

US State Right-to-Know Regulations

Aluminum Chloride 7446-70-0	
Massachusetts Right to Know Law	Present
Minnesota Hazardous Substance List	Present
New Jersey Right-to-Know List	Sn 0057
Pennsylvania Right to Know List	Present (dust, as Al) Present

HMIS RATING

HEALTH: 2
FLAMMABILITY: 0
REACTIVITY: 0
PERSONAL PROTECTION: X

NFPA RATING

HEALTH: 2
FLAMMABILITY: 0
REACTIVITY: 0
SPECIAL: COR

DATE OF PREPARATION

5-27-2015

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