BAY AREA CHEMICAL CONSORTIUM BID FORM FOR BID NO. 01-2025 FOR SUPPLY AND DELIVERY OF ALUMINUM SULFATE

Legal Name of Bidder:
CHEMTRADE CHEMICALS US LLC
Business Address 90 EAST HALSEY ROAD, SUITE 200 PARSIPPANY, NJ 07054
Telephone Number: 800-441-2659
Facsimile Number: 973-515-4461
Email Address: bids@chemtradelogistics.com
Authorized Representative (Please Print): ELIZABETH RYNO, MARKETING SPECIALIST Signature:

- I. All costs except California State sales tax for the purchase of ALUMINUM SULFATE must be included in the amount shown entered into the electronic bid platform (Line Item page), including any and all mill assessments, fees, excise taxes, transportation charges, etc. Any exceptions to the bid must be noted under Specific Deviations on the Standard Agreement. Bidders shall submit bids per unit of measure as specified in the electronic bid platform (Line Item page).
- II. Bidders must submit all of the following, attached to this Bid Form:
 - a. All requirements listed in Section 2.21 Manufacturer's Info.
 - b. If applicable, the name, address, and contact information for the third party hauling company as well as an affidavit signed by the Bidder that the third party hauler can and will deliver the chemical to each and every participating BACC Agency.

III. Bidder Obligations

By signing this Bid Form and entering into individual purchase orders, purchase agreements and /or contracts with BACC agencies, the bidder expressly agrees to be bound by all the provisions of the bid solicitation, including Sections I-IV.



Water Treatment Group

90 East Halsey Road Parsippany, NJ 07054 Tel: 1-800-441-2653 Fax: (973) 515-4461 www.chemtradelogistics.com

PRODUCT CERTIFICATION

Chemtrade Chemicals certifies that all grades of Aluminum Sulfate as produced by our manufacturing locations will meet National Sanitation Foundation Standard 60 and ANSI/AWWA B 403-24 standard in every respect.

Additionally, we certify that the product meets or exceeds the specifications as set forth in the Bay Area Chemical Consortium bid.

Safety Data Sheet, NSF Certification and related technical information is attached for review.

Elizabeth Ryno

Marketing Specialist



The Public Health and Safety Organization

NSF Product and Service Listings

These NSF Official Listings are current as of **Tuesday**, **February 4**, **2025** at 12:15 a.m. Eastern Time. Please contact NSF to confirm the status of any Listing, report errors, or make suggestions.

Alert: NSF is concerned about fraudulent downloading and manipulation of website text. Always confirm this information by clicking on the below link for the most accurate information:

http://info.nsf.org/Certified/PwsChemicals/Listings.asp?

 $\underline{CompanyName = Chemtrade\&TradeName = ALUM\&PlantState = California + CA\&PlantCountry = UNITED + STAT}\\ES\&$

NSF/ANSI/CAN 60 Drinking Water Treatment Chemicals - Health Effects

Chemtrade Solutions LLC (formerly General Chemical LLC)

155 Gordon Baker Road
Suite 300
Toronto, ON M2H 3N5
Canada
866-887-8805
416-496-5856
Visit this company's website

(http://www.chemtradelogistics.com)

Facility: Pittsburg, CA

Aluminum Chloride[AL]

Trade Designation
Aluminum Chloride Solution

Product Function

Max Use

Coagulation & Flocculation

200mg/L

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

Aluminum Sulfate[AL] [CP]

Trade Designation	Product Function	Max Use
Alum	Coagulation & Flocculation	400 mg/L
Aluminum Sulfate	Coagulation & Flocculation	400 mg/L
Liquid Alum	Coagulation & Flocculation	400mg/L
Liquid Alum Acidized 0.5-10.0%	Coagulation & Flocculation	400 mg/L

- [AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.
- [CP] The finished drinking water shall be monitored to ensure that levels of copper do not exceed 1.3 mg/L.

Polyaluminum Chloride[AL]

Trade Designation	Product Function	Max Use
Polyaluminum Chloride	Coagulation & Flocculation	250 mg/L

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

Number of matching Manufacturers is 1 Number of matching Products is 6 Processing time was 1 seconds



ANALYTICAL SERVICES LABORATORY REPORT OF ANALYSIS

To:

BAY AREA CHEMICAL CONSORTIUM

cc:

Beth Ryno

Lab. Log #

4112712

SAMPLES:

Liquid Aluminum Sulfate - Semi-Annual Audit

Lot#

Batch 291-BY41113LAS

ORIGIN:

BayPoint

All analyses are reported as PPM unless stated otherwise

PARAMETER	Concentration	PARAMETER	Concentration
As	<2	% Al2O3 (total by wt)	8.1
Ва	<1	% Aluminum Sulfate (dry basis)	47
Be	<1	% Free Al2O3 (free by wt)	0.10
Ca	12	% Fe2O3 (total soluble by wt)	0.001
Cd	<1	% Insolubles (by wt)	0.001
Co	<1	Turbidity (NTU)	6.9
Cr	<1	Appearance	clear
Cu	<1	Baume at 60 deg	35.7
Fe	10	Specific Gravity @ 60 degF	1.33
Hg	<0.5	Chlorides, ppm	45
K	3		
Mg	6		
Mn	<1		
Mo	<1		
Na	331		
Ni	<1		
Р	2		
Pb	<1.5		
Sb	<1.5		
Se	<1		
Si	7		
Sn	<1		
Sr	<1		
Ti	2		
Ti	<1.5		
V	<1		
Zn	<1		
Zr	<1		

NOTES:

Product within specification for all parameters analyzed.

Analysts	Record	Report Date
B. Hamilton	WC120924	1/18/2025
S. Ulman	45636.408	BR 02/08/2025

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Water Chemicals Group 90 East Halsey Road Parsippany, NJ 07054 Tel: 800-441-2659 Fax: 973-515-4461 www.chemtradelogistics.com

Bay Area Chemical Consortium

Bid Number: 01-2025 Liquid Aluminum Sulfate

Opening: February 20, 2025 @ 4:00 p.m.

MANUFACTURING & SHIPPING INFORMATION:

Please note that the products included in this bid are manufactured in the United States of America. Chemtrade Chemicals will be manufacturing and shipping this material from our USA plant. Please see below for the exact address:

Bay Point Works 501 Nicholas Road Pittsburg, CA 94565

Ph: (925) 458-7300 Fax: (925) 458-7352

If you have any questions or concerns, please feel free to contact me.

Sincerely,

Elizabeth Ryno

Marketing Specialist

Ph: (973) 515-1858

bids@ChemtradeLogistics.com

Elphoth Rips



Liquid Alum PRODUCT DATA SHEET

CHARACTERISTICS

Liquid Alum is a clear, light green, slight yellow, brown, amber or orange-like tinted solution. It is a cationic inorganic coagulant and flocculant suitable for industrial and municipal water and wastewater treatment applications.

NSF/ANSI/CAN Standard 60: Drinking Water Chemicals - Health Effects; Certified

TYPICAL PROPERTIES

Formula:

Aqueous solution of aluminum sulfate

C.A.S.

10043-01-3 (Aluminum sulfate)

pH (neat)

Specific Gravity @ 21°C (70°F)

Freezing Point

Density, lbs./gal., US

Aluminum as Al, %

Aluminum as Al-Oc %

1.4 - 2.6

1.30 - 1.35

1.30 - 1.35

10.8 - 11.3

4.2 - 4.5

Aluminum as Al_2O_3 , % 8.0 - 8.4 Aluminum as $Al_2(SO_4)_3 \cdot 14H_2O$ (Dry Alum), % 46 - 49

PRODUCT USES

Municipal and industrial water and wastewater treatment for the removal of turbidity, color, suspended solids and phosphorus. Sludge compaction and volume reduction. Lagoon treatment. Oily wastewater clarification and dissolved air flotation. Emulsion breaking. Fixing rosin sizes on paper fibers. Paper machine drainage and retention aid. Paper machine pitch control.

SHIPPING CONTAINERS

Bulk transport

Bulk car

275 US gal. one-way container

55 US gal. plastic drum

SHIPPING REGULATIONS (US DOT / TDG)

Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, N.O.S. (Contains Aluminum Sulfate)

Hazard Class: 8 ID Number: UN3264 Packing Group: III

The US EPA reportable quantity (RQ) for aluminum sulfate is 5,000 lbs.

PRODUCT SAFETY INFORMATION

Anyone procuring, using or disposing of these products or their containers must be familiar with the appropriate safety and handling precautions. Such information may be found in the **Safety Data Sheets** (**SDS**) for these products or you may contact Chemtrade at 416-496-5856. In the event of an emergency with these products, call the 24-hour **Emergency Number: USA and Canada (CHEMTREC) 800-424-9300**. For additional information contact:

Syracuse Technical Center 315-478-2323 or 800-255-7589

Water Treatment Chemicals
Customer Service 844-204-9675

CHE-5001P-1

Revision Date: April 24, 2022

All information, statements, data, advice and/or recommendations, including, without limitation, those relating to storage, loading/unloading, piping and transportation (collectively referred to herein as "information") are believed to be accurate and reliable. However, no representation or warranty, express or implied, is made as to its completeness, accuracy, fitness for a particular purpose or any other matter, including, without limitation, that the practice or application of any such information is free of patent infringement or other intellectual property misappropriation. Chemtrade Logistics Inc. and its affiliates (collectively, "Chemtrade") are not engaged in the business of providing technical, operational, engineering or safety information for a fee, and, therefore, any such information provided herein has been furnished as an accommodation and without charge. All information provided herein is intended for use by persons having requisite knowledge, still and experience in the chemical industry. Chemtrade shall not be responsible or liable for the use, application or implementation of the Information provided herein, and all such information is to be used at the risk, and in the sole judgment and discretion, of such persons, their employees, advisors and agents.



Liquid Alum Safety Data Sheet

Safety Data Sheet #: CHE-5001S

Revision Date: October 3, 2023

Version:12

1. Identification

Product identifier

Product Identity

Liquid Alum

Other means of identification

Aluminum Sulfate, liquid, Liquid Alum

Product Form

Mixture

Relevant identified uses of the substance or mixture and uses advised against

Alum is used as a coagulating agent in municipal and industrial water and wastewater treatment

and as an additive in papermaking.

Restrictions on use:

For use in water treatment, refer to NSF dosage

information.

Details of the supplier of the safety data sheet

Company Name

Chemtrade Logistics Inc. (Canada) 155 Gordon Baker Road Suite 300

Toronto, Ontario M2H 3N5

Chemtrade Logistics Inc. (US) 90 East Halsey Road, Suite 200

Parsippany, NJ 07054

Emergency

24 hour Emergency Telephone No.

Chemtrade Emergency Contact: (866) 416-4404

(Toronto)

CHEMTREC +1-800-424-9300

For Chemical Emergency, Spill, Leak, Fire, Exposure,

or Accident, call CHEMTREC - Day or Night

Customer Service:

For SDS Info: (416) 496-5856 www.chemtradelogistics.com

2. Hazard(s) identification

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

Classification of the substance or mixture

Metal corrosion: H290

May be corrosive to metals.

Skin corrosion/irritation category 1C; H314

Causes severe skin burns and eye damage.

Serious eye damage / eye irritation, category 2; Causes serious eye irritation.

H319

Aquatic toxicity (acute), category 3; H402

Harmful to aquatic life.

1/13 SDS#: CHE-501S Version: 12 Revision Date: October 3, 2023

Safety Data Sheet

Label elements



Danger

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H402 Harmful to aquatic life.

[Prevention]:

P234 Keep only in original container.

P260 Do not breathe dust, fume, mist, vapours or spray.

P264 Wash thoroughly after handling.

P273 Avoid release to the environment.

P280All Wear protective gloves, protective clothing, eye protection, face protection.

[Response]:

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+361+353 IF ON SKIN (or hair): Remove, take off immediately all contaminated clothing.

Rinse skin with water, shower.

P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER, doctor or physician.

P337+313 If eye irritation persists: Get medical advice or attention.

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

[Storage]:

P405 Store locked up.

P406 Store in a corrosive resistant, container with a resistant inner liner.

[Disposal]:

P501 Dispose of contents or container in accordance with local and national regulations.

2.3. Other hazards

Safety Data Sheet

This product contains no PBT/vPvB chemicals.

This product contains no endocrine disrupting chemicals.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the Hazardous Products Regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Water CAS Number:7732-18-5	30 - 55	Not classified	No additional notes
Aluminum sulfate CAS Number: 0010043-01-3 Synonyms: Note: Aluminum sulfate is as Al2(SO4)3•14H2O (Dry Aluminum Sulfate). , Aluminium sulfate, Sulfuric acid, aluminum salt (3:2)	45 - 70	Serious eye damage / eye irritation, category 1;H318 Metal corrosion;H290 Aquatic toxicity (acute), category 3;H402	No additional notes

The actual concentration or concentration range is withheld as a trade secret.

The specific chemical identity and/or exact percentage of composition are withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200].

Section 4. First aid measures

Description of first aid measures

General In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

Inhalation Remove to fresh air, keep patient warm and at rest. If unconscious, place in the

recovery position and obtain immediate medical attention. Give nothing by

mouth.

Eyes Irrigate copiously with clean water for at least 30 minutes, holding the eyelids apart

and seek medical attention. Remove contact lenses, if present and easy to do.

Continue rinsing.

Skin Remove contaminated clothing. Wash skin thoroughly with soap and water or use a

recognized skin cleanser. Drench affected area with water for at least 30 minutes.

Obtain medical attention if irritation develops or persists.

Ingestion If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce

vomiting.

Most important symptoms and effects, both acute and delayed

Overview Contact v

Contact with skin causes severe skin burns. Causes serious eye damage.

Acute Health Effects: the substance causes serious eyes damage and severe burns. EYE: Contact causes serious eye damage. Causes permanent damage to the cornea, iris, or conjunctiva with redness, pain, swelling, blurred vision, and severe burns (Immediate). No delayed effects from eye contact are expected. No chronic effects

from eye contact are known.

SKIN: Causes severe irritation which will progress to chemical burns. Symptoms may include redness, pain, serious skin burns, and blisters. (Immediate). No

^{*}PBT/vPvB - PBT-substance or vPvB-substance.

The full texts of the phrases are shown in Section 16.

Safety Data Sheet

delayed effects from skin contact are expected. No chronic effects from skin contact are known.

INHALATION: May be corrosive to the respiratory tract. Prolonged exposure may cause irritation of the upper respiratory passages. (Immediate). May cause delayed pulmonary edema. No chronic effects from inhalation are known.

INGESTION: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract (Immediate). No delayed symptoms from ingestion are expected. No chronic effects from ingestion are known.

Indication of Any Immediate Medical Attention and Special Treatment Needed: If

exposed or concerned, get medical advice and attention.

See section 2 for further details.

Eyes

Causes serious eye irritation.

Skin

Causes severe skin burns and eye damage.

Section 5. Fire-fighting measures

Extinguishing media

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

Unsuitable extinguishing media: Do not use water jet, or heavy water stream. Use of heavy stream of water may spread fire.

Special hazards arising from the substance or mixture

Hazardous decomposition: Can liberate toxic and corrosive fumes of SO2 and SO3 under extreme conditions when boiled to dryness or heated above 600 ° C (1112 °F).

Keep only in original container.

Do not breathe dust, fume, mist, vapours or spray.

Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full-face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean up immediately after fire. No smoking.

Fire Hazard: Product is not flammable but may burn at high temperatures.

Explosion Hazard: <u>Product is not explosive.</u> <u>Contact with metallic substances may release flammable</u> hydrogen gas.

Firefighting Instructions: Do not enter fire area without proper protective equipment, including respiratory protection. Use water spray or fog for cooling exposed containers. Remove containers from fire area if this can be done without risk. **Exercise caution when fighting any chemical fire.**

Hazardous reactions will not occur under normal conditions.

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

ERG Guide No. 154

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General Measures: Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid contact with eyes, skin and clothing. Provide

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adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. See Section 8.

Use good personal hygiene practices. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Promptly remove soiled clothing and wash thoroughly before reuse.

Use only outdoors or in a well-ventilated area. Do not breathe mist, spray, and vapours.

Do not get in eyes, on skin, or on clothing. Use appropriate personal protection equipment (PPE). Wear protective gloves, eye protection, face protection (refer to section 8 for more details).

Environmental precautions

Prevent entry to sewers and public waters. Avoid release to environment.

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

Methods and material for containment and cleaning up

Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Ventilate area.

Contain, dilute cautiously with water, and neutralize with soda ash or lime.

Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions. Ventilate area. Contain, dilute cautiously with water, and neutralize with soda ash or lime.

Methods for Clean up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

Section 7. Handling and storage

Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

Store locked up.

Use good personal hygiene practices. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Promptly remove soiled clothing and wash thoroughly before reuse.

Use only outdoors or in a well-ventilated area. Do not breathe mist, spray, and vapours.

Do not get in eyes, on skin, or on clothing. Use appropriate personal protection equipment (PPE).

Wear protective gloves, eye protection, face protection (refer to section 8 for more details).

See section 2 for further details. - [Prevention]:

Conditions for safe storage, including any incompatibilities

Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from extremely high or low temperatures and incompatible materials. Store in original container or corrosive resistant and/or lined container.

Comply with applicable regulations.

Incompatible materials: Non acid-proof metals (such as aluminum, copper and iron), bases, unalloyed steel, galvanized surfaces.

See section 2 for further details. - [Storage]:

Specific end use(s)

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Alum is used as a coagulating agent in municipal and industrial water and wastewater treatment and as an additive in papermaking.

Restrictions on use:

For use in water treatment, refer to NSF dosage information.

Section 8. Exposure controls / personal protection

Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0010043-01-3	Aluminum sulfate	ACGIH	No Established Limit
		OSHA	No Established Limit
		NIOSH	TWA 2 mg/m ³
		Alberta	No Established Limit
		British Columbia	No Established Limit
		Manitoba	No Established Limit
		New Brunswick	No Established Limit
		Newfoundland and Labrador	No Established Limit
		Nova Scotia	No Established Limit
		Northwest Territories	No Established Limit
		Nunavut	No Established Limit
		Ontario	No Established Limit
		Prince Edward Island	No Established Limit
		Quebec	No Established Limit
		Saskatchewan	No Established Limit
		Yukon	No Established Limit









Exposure controls

Respiratory Use NIOSH/MSHA approved respirator, following manufacturer's recommendations

when concentrations exceed permissible exposure limits.

Eyes Chemical safety goggles and face shield.

Skin Chemical resistant clothing such as coveralls/apron and boots should be worn.

Avoid skin contact. Wear protective gloves. Wear suitable protective clothing. **Materials for Protective Clothing:** Chemically resistant materials and fabrics.

fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas.

Ensure all national/local regulations are observed.

Other Work Practices Put on appropriate personal protective equipment. Chemically compatible gloves,

protective clothing, and chemical resistant safety goggles, face shield. Insufficient

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ventilation: wear respiratory protection. Use good personal hygiene practices. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Promptly remove soiled clothing and wash thoroughly before reuse.

Use only outdoors or in a well-ventilated area. Do not breathe mist, spray, and vapours.

Do not get in eyes, on skin, or on clothing. Use appropriate personal protection equipment (PPE). Wear protective gloves, eye protection, face protection (refer to section 8 for more details).

See section 2 for further details.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State liquid
Color Clear
Odor Odorless

Freezing point -15.56 °C (3.99 °F)
Initial boiling point 101 °C (213.8 °F)
Flammability (solid, gas) Not applicable

Upper/lower flammability or explosive limits

Partition coefficient n-octanol/water (Log Kow)

Lower Explosive Limit: No available information **Upper Explosive Limit:** No available information

°F °C, Test method: (Open/Close cup)

No available information

No available information

1.4 - 2.6

No available information Completely Soluble in water. No available information No available information

No available information
No available information

Evaporation rate (Ether = 1)No available information

Not applicable 1.30 - 1.35

Vapour pressure (Pa)

Relative Density

Vapour Density

Auto-ignition temperature

Decomposition temperature

Specific Gravity
Other information

Flash Point

Viscosity (cSt)
Solubility in Water

pН

No other relevant information.

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Section 10. Stability and reactivity

Reactivity

May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

Chemical stability

Stable under recommended handling and storage conditions (see section 7).

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

Incompatible materials

Non acid-proof metals (such as aluminum, copper and iron), bases, unalloyed steel, galvanized surfaces.

Hazardous decomposition products

Can liberate toxic and corrosive fumes of SO2 and SO3 under extreme conditions when boiled to dryness or heated above 600 ° C (1112 °F).

Section 11. Toxicological information

Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation vapour LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Product Acute Toxicity Estimates	3495	NA	NA	NA	NA

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation vapour LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Aluminum sulfate - (10043-01-3)	2,500.00, Rat -	No data	No data	No data	No data
	Category: 5	available.	available.	available.	available.

Carcinogen Data

CAS No.	Ingredient	Source	Value			
0010043-01-3	Aluminum sulfate	IARC	Group 1: No:	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;		
		ACGIH	No Establish	ed Limit		
Classificati	on	Ca	tegory	Hazard Description		
Acute toxici	ty (oral)			Not Applicable		
Acute toxici	ty (dermal)			Not Applicable		
Acute toxici	ty (inhalation)			Not Applicable		
Skin corrosio	on/irritation		1C	Causes severe skin burns and eye damage.		
Serious eye	damage/irritation		2	Causes serious eye irritation.		
Respiratory	sensitization			Not Applicable		

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Skin sensitization	 Not Applicable
Germ cell mutagenicity	 Not Applicable
Carcinogenicity	 Not Applicable
Reproductive toxicity	 Not Applicable
STOT-single exposure	 Not Applicable
STOT-repeated exposure	 Not Applicable
Aspiration hazard	 Not Applicable

Possible routes of entry:

Symptoms and effects, both acute and delayed:

Contact with skin causes severe skin burns. Causes serious eye damage.

Acute Health Effects: the substance causes serious eyes damage and severe burns.

EYE: Contact causes serious eye damage. Causes permanent damage to the cornea, iris, or conjunctiva with redness, pain, swelling, blurred vision, and severe burns (Immediate). No delayed effects from eye contact are expected. No chronic effects from eye contact are known.

SKIN: Causes severe irritation which will progress to chemical burns. Symptoms may include redness, pain, serious skin burns, and blisters. (Immediate). No delayed effects from skin contact are expected. No chronic effects from skin contact are known.

INHALATION: May be corrosive to the respiratory tract. Prolonged exposure may cause irritation of the upper respiratory passages. (Immediate). May cause delayed pulmonary edema. No chronic effects from inhalation are known.

INGESTION: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract (Immediate). No delayed symptoms from ingestion are expected. No chronic effects from ingestion are known.

Indication of Any Immediate Medical Attention and Special Treatment Needed: If exposed or concerned, get medical advice and attention.

Most likely route(s) of exposure Skin, Eyes

Eyes

Causes serious eye irritation.

Skin

Causes severe skin burns and eye damage.

Section 12. Ecological information

Toxicity

Harmful to aquatic life.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish,	48 hr EC50 crustacea,	ErC50 algae,
	mg/l	mg/l	mg/l
Aluminum sulfate - (10043-01-3)	186.00, Danio rerio	38.20, Daphnia	0.45, Ceriodaphnia dubia

Persistence and degradability

There is no data available on the preparation itself.

Bioaccumulative potential

No available information

Mobility in soil

Safety Data Sheet

No available information

Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

Other adverse effects

No available information

Section 13. Disposal considerations

Waste treatment methods

Dispose of waste material in accordance with all local, regional, federal, provincial, state, territorial and international regulations.

Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Section 14. Transport information



Classification Method: Classified as per Part 2, Sections 2.1 - 2.8 of the Transportation of Dangerous Goods Regulations.

	DOT / TDG (Domestic Surface	IMO / IMDG (Ocean	ICAO/IATA
	Transportation)	Transportation)	
UN number	UN3264	UN3264	UN3264
UN proper	UN3264, Corrosive liquid, acidic,	Corrosive liquid, acidic,	Corrosive liquid, acidic,
shipping	inorganic, n.o.s., (contains	inorganic, n.o.s., (contains	inorganic, n.o.s., (contains
name	aluminum sulfate), 8, III	aluminum sulfate)	aluminum sulfate)
Transport	TDG Hazard Class: 8	IMDG: 8	Air Class: 8
hazard	Sub Class: Not Applicable	Sub Class: Not Applicable	Sub Class: Not Applicable
class(es)			
Packing group	o III	III	III

Environmental hazards

Marine Pollutant: No;

Special precautions for user

No available information

Section 15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

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NFPA Ranking

Health (blue) :3

Fire (red):0

Reactivity (yellow):1 Special (white):ACID



This product has been classified in accordance with the hazard criteria Hazardous Products Regulations (SOR/2015-17) and the SDS contains all of the information required by those regulations.

Toxic Substance Control Act (TSCA):

Aluminum sulfate (Present)

Water (Present)

EPCRA 311/312 Chemicals and RQs (lbs):

Aluminum sulfate (5,000.00)

Canadian Domestic Substance List (DSL):

Aluminum sulfate

Water

Canadian Non-Domestic Substance List (NDSL):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):

Aluminum sulfate

Pennsylvania RTK Substances (>1%):

Aluminum sulfate

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 Label Warning:

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Chemical Name (CAS Number)	Australia AICS	Korea ECL	EU EINECS	EU ELINCS	EU SVHC	EN NLP	Mexico INSQ
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Aluminum	Yes	Yes	Yes	Yes	No	No	No	Yes
sulfate (0010043-01-3)								

Chemical Name (CAS Number)	China IECSC	Japan ENCS	Japan ISHL	Japan PDSCL	Japan PRTR 1	Japan PRTR 2	Philippines PICCS	New Zealand NZIOC
Aluminum sulfate (0010043-01-3)	Yes	Yes	No	No	No	No	Yes	Yes

Section 16. Other information

Revision Date

10/03/2023

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H290 May be corrosive to metals.

H318 Causes serious eye damage.

H402 Harmful to aquatic life.

Disclaimer: The information presented herein is supplied as a guide to those who handle or use this product. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

Revision Summary

Section :	Modification
2	Updated skin corrosion category to H314 1C to match Transportation packing group III

Handle product with due care and avoid unnecessary contact. This information is supplied under U.S. OSHA'S "Right to Know" (29 CFR 1910.1200) and Canada's WHMIS regulations. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist. The information contained herein is based on data available to us and is believed to be true and accurate but it is not offered as a product specification. No warranty, expressed or implied, regarding the accuracy of this data, the hazards connected with the use of the product, or the results to be obtained from the use thereof, is made and Chemtrade and its affiliates assume no responsibility. Chemtrade is a member of the CIAC (Chemistry Industry Association of Canada) and adheres to the codes and principles of Responsible Care™.



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Water Chemicals Group 90 East Halsey Road Parsippany, NJ 07054 Tel: 800-441-2659 Fax: 973-515-4461 www.chemtradelogistics.com

Bay Area Chemical Consortium

Bid Number: 01-2025 Liquid Aluminum Sulfate

Opening: February 20, 2025 @ 4:00 p.m.

SUBCONTRACTOR UTILIZATION

Please note that Chemtrade Chemical's Liquid Aluminum Sulfate manufacturing plant located in Pittsburg, CA. Product is typically shipped through our third-party carrier. Their information is as follows:

Chemical Transfer 1033 Stokes Avenue Stockton, CA 95215 Phone: (209) 943-2639

Chemical Transfer has a long-standing relationship with Chemtrade Chemicals and meets all of our security and safety standards and due diligence in performing personnel background checks is in compliance. We further certify that this 3rd party carrier can haul and deliver the required chemicals to every participating BACC Agency.

Should you have any questions or concerns, please feel free to contact me.

Sincerely,

Elizabeth Ryno Marketing Specialist Phone: (973) 515-1858

Email: bids@ChemtradeLogistics.com