

**BAY AREA CHEMICAL CONSORTIUM
BID FORM FOR BID NO.01-2026
FOR SUPPLY AND DELIVERY OF ALUMINUM SULFATE**

Sealed bids must be submitted in a PDF format and bidders must enter bid prices into the electronic bid platform (Line Item page)

<https://bacwa.org/about-bacc/>

No later than 4:00 PM. PT
Thursday, February 19, 2026

Legal Name of Bidder:
CHEMTRADE CHEMICALS US LLC

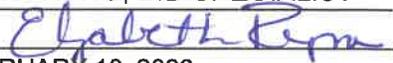
Business Address
90 EAST HALSEY ROAD, SUITE 200
PARSIPPANY, NJ 07054

Telephone Number: 800-441-2659

Facsimile Number: 973-515-4461

Email Address: bids@chemtradelogistics.com

Authorized Representative (Please Print):
ELIZABETH RYNO, BID SPECIALIST

Signature: 

Date: FEBRUARY 18, 2026

I. All costs except California State sales tax and tariffs 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 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: 01-2026 Liquid Aluminum Sulfate
Opening: February 19, 2026 @ 4:00 p.m.

SUBCONTRACTOR UTILIZATION

Please note that Chemtrade Chemical's Liquid Aluminum Sulfate manufacturing plant located in Pittsburg, CA. Products are 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,

A handwritten signature in blue ink that reads "Elizabeth Ryno". The signature is fluid and cursive.

Elizabeth Ryno
Bid Specialist
Phone: (973) 515-1858
Email: bids@ChemtradeLogistics.com



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 set forth in the Bay Area Chemical Consortium bid.

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

Elizabeth Ryno
Bid Specialist



The Public Health and Safety Organization

NSF Product and Service Listings

These NSF Official Listings are current as of **Wednesday, February 18, 2026** 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?>

[Company Name=chemtrade+&Trade Name=alum&Plant State=California+CA&](http://info.nsf.org/Certified/PwsChemicals/Listings.asp?CompanyName=chemtrade+&TradeName=alum&PlantState=California+CA&)

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

Coagulation & Flocculation

Max Use

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]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
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]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
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 2 seconds



**CHEMTRADE ANALYTICAL SERVICES LABORATORY
REPORT OF ANALYSIS**

To: Bay Area
cc: Beth Ryno

Lab. Log # 503130600

SAMPLES: Liquid Aluminum Sulfate - Semi-Annual Audit

ORIGIN: Baypoint

All analyses are reported as PPM unless stated otherwise

PARAMETER	Concentration	PARAMETER	Concentration
As	<2	% Al ₂ O ₃ (total by wt)	8.1
Ba	<1	% Free Al ₂ O ₃ (free by wt)	0.2
Be	<1	% Fe ₂ O ₃ (total soluble by wt)	0.001
Ca	13	% Insolubles (by wt)	0.020
Cd	<1		
Co	<1	Turbidity (NTU)	2.4
Cr	<1	Appearance	clear water white
Cu	<1		
Fe	10		
Hg	<0.5		
K	3		
Mg	5		
Mn	<1		
Mo	<1		
Na	289		
Ni	<1		
P	2		
Pb	<1.5		
Sb	<1.5		
Se	<1		
Si	9		
Sn	<1		
Sr	<1		
Ti	2		
Tl	<1.5		
V	<1		
Zn	<1		
Zr	<1		

NOTES:

Product within specification for all parameters analyzed.

Analysts
Z. Miller
S. Ulman

Record
WC033125
45748.383

Report Date
BR 02/16/2026

Chemtrade is not engaged in the business of consulting or providing technical, operational or safety advice for a fee. Any such advice provided herein has been furnished as an accommodation and without charge and is made without any warranty of representation as to its completeness, accuracy, fitness for a particular purpose or any other matter. The recipient's use or non-use of such advice is made solely at the discretion and risk of the recipient.



CHEMTRADE

**ANALYTICAL SERVICES LABORATORY
REPORT OF ANALYSIS**

To: Bay Area
cc: Beth Ryno

Lab. Log # 503130601

SAMPLES: Liquid Aluminum Acidified, 2% - Semi-Annual Audit

ORIGIN: Baypoint

All analyses are reported as PPM unless stated otherwise

PARAMETER	Concentration	PARAMETER	Concentration
As	<2	% Al ₂ O ₃ (total by wt)	7.4
Ba	<1	% Free H ₂ SO ₄ (free by wt)	2.1
Be	<1	% Fe ₂ O ₃ (total soluble by wt)	0.001
Ca	12	% Insolubles (by wt)	0.020
Cd	<1		
Co	<1		
Cr	<1		
Cu	<1		
Fe	9		
Hg	<0.5		
K	3		
Mg	5		
Mn	<1		
Mo	<1		
Na	261		
Ni	<1		
P	2		
Pb	<1.5		
Sb	<1.5		
Se	<1		
Si	9		
Sn	<1		
Sr	<1		
Ti	2		
Tl	<1.5		
V	<1		
Zn	<1		
Zr	<1		

NOTES:

Product within specification for all parameters analyzed.

Analysts
Z. Miller
S. Ulman

Record

Report Date
BR 02/16/2026

Chemtrade is not engaged in the business of consulting or providing technical, operational or safety advice for a fee. Any such advice provided herein has been furnished as an accommodation and without charge and is made without any warranty of representation as to its completeness, accuracy, fitness for a particular purpose or any other matter. The recipient's use or non-use of such advice is made solely at the discretion and risk of the recipient.



**CHEMTRADE ANALYTICAL SERVICES LABORATORY
REPORT OF ANALYSIS**

To: Bay Area
cc: Beth Ryno

Lab. Log # 503130602

SAMPLES: Liquid Aluminum Acidified, 5% - Semi-Annual Audit

ORIGIN: Baypoint

All analyses are reported as PPM unless stated otherwise

PARAMETER	Concentration	PARAMETER	Concentration
As	<2	% Al ₂ O ₃ (total by wt)	6.7
Ba	<1	% Free Al ₂ O ₃ (free by wt)	5.2
Be	<1	% Fe ₂ O ₃ (total soluble by wt)	0.001
Ca	11	% Insolubles (by wt)	0.020
Cd	<1		
Co	<1		
Cr	<1		
Cu	<1		
Fe	8		
Hg	<0.5		
K	3		
Mg	4		
Mn	<1		
Mo	<1		
Na	235		
Ni	<1		
P	2		
Pb	<1.5		
Sb	<1.5		
Se	<1		
Si	8		
Sn	<1		
Sr	<1		
Ti	2		
Tl	<1.5		
V	<1		
Zn	<1		
Zr	<1		

NOTES:

Product within specification for all parameters analyzed.

Analysts
Z. Miller
S. Ulman

Record

Report Date
BR 02/16/2026

Chemtrade is not engaged in the business of consulting or providing technical, operational or safety advice for a fee. Any such advice provided herein has been furnished as an accommodation and without charge and is made without any warranty of representation as to its completeness, accuracy, fitness for a particular purpose or any other matter. The recipient's use or non-use of such advice is made solely at the discretion and risk of the recipient.



Water Chemicals Group
90 East Halsey Road
Parsippany, NJ 07054
Tel: 973-515-0900
Fax: 973-515-4461

Bay Area Chemical Consortium
Bid Number: 01-2026 - Liquid Aluminum Sulfate
Opening: February 19, 2026 @ 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
Bid Specialist
Ph: (973) 515-1858
bids@ChemtradeLogistics.com

**CHEMTRADE**<http://www.chemtradelogistics.com>

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)	1.4 - 2.6	
	Specific Gravity @ 21°C (70°F)	1.30 - 1.35	
	Freezing Point	-16°C (4°F)	
	Density, lbs./gal., US	10.8 - 11.3	
	Aluminum as Al, %	4.2 - 4.5	
	Aluminum as Al ₂ O ₃ , %	8.0 - 8.4	
	Aluminum as Al ₂ (SO ₄) ₃ •14H ₂ O (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) 1-800-424-9300**. For additional Water Chemicals contacts:

TECHNICAL SUPPORT

✉ WaterChem@chemtradelogistics.com

ORDERS & GENERAL INQUIRIES

☎ 1-844-204-9672

CHE-5001P-1

Revision Date: January 22, 2026

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, skill 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.



CHEMTRADE

<http://www.chemtradelogistics.com>

Liquid Alum, Acidized 2.0% PRODUCT DATA SHEET

CHARACTERISTICS

Liquid Alum, Acidized 2.0% is a colorless to light green or amber colored liquid. It is an advanced cationic 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 and sulfuric acid	
C.A.S.	10043-01-3 / 7664-93-9 (Aluminum sulfate / Sulfuric acid)	
	pH (neat)	Less than 1
	Specific Gravity @ 21°C (70°F)	1.29 - 1.31
	Freezing Point (approx.)	Less than -15°C (< 5°F)
	Density, lbs./gal., US	10.8 - 10.9
	Aluminum as Al, %	3.9 - 4.0
	Aluminum as Al ₂ O ₃ , %	7.4 - 7.6
	Free Acid, % as H ₂ SO ₄	2

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. 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, Sulfuric Acid)

Hazard Class: 8

ID Number: UN3264

Packing Group: II

The US EPA reportable quantity (RQ) for aluminum sulfate is 5,000 lbs. and for sulfuric acid is 1,000 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) 1-800-424-9300**. For additional Water Chemicals contacts:

TECHNICAL SUPPORT

✉ WaterChem@chemtradelogistics.com

ORDERS & GENERAL INQUIRIES

☎ 1-844-204-9672

CHE-5060P-04

Revision Date: January 24, 2026

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, skill 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.



CHEMTRADE

<http://www.chemtradelogistics.com>

Liquid Alum, Acidized 5.0% PRODUCT DATA SHEET

CHARACTERISTICS

Liquid Alum, Acidized 5.0% is a colorless to light green or amber colored liquid. It is an advanced cationic 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 and sulfuric acid	
C.A.S.	10043-01-3 / 7664-93-9 (Aluminum sulfate / Sulfuric acid)	
	pH (neat)	Less than 1
	Specific Gravity @ 21°C (70°F)	1.28 - 1.30
	Freezing Point (approx.)	Less than -18°C (< 0°F)
	Density, lbs./gal., US	10.7 - 10.8
	Aluminum as Al, %	3.5 - 3.7
	Aluminum as Al ₂ O ₃ , %	6.7 - 6.9
	Free Acid, % as H ₂ SO ₄	5

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. 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, Sulfuric Acid)

Hazard Class: 8

ID Number: UN3264

Packing Group: II

The US EPA reportable quantity (RQ) for aluminum sulfate is 5,000 lbs. and for sulfuric acid is 1,000 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) 1-800-424-9300**. For additional Water Chemicals contacts:

TECHNICAL SUPPORT

✉ WaterChem@chemtradelogistics.com

ORDERS & GENERAL INQUIRIES

☎ 1-844-204-9672

CHE-5060P-08

Revision Date: January 24, 2026

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, skill 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.

Section 1. Identification**Product identifier****Product Identity**

Liquid Alum

Other means of identification

Aluminum Sulfate, liquid (CHE-5001S)

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
(416) 496-5856

Chemtrade Logistics Inc. (US)
90 East Halsey Road, Suite 200
Parsippany, NJ 07054
(800) 228- 8558

Emergency**24 hour Emergency Telephone No.**

Chemtrade Emergency Contact: (866) 416-4404 (US and Canada)

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

Section 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 1;H318 Causes serious eye damage.

Label elements**Danger**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

[Prevention]:

P234 Keep only in original packaging.

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

P264 Wash thoroughly after handling.

P280 Wear protective gloves, protective clothing, eye protection, face protection.

[Response]:

P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or 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.

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

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.

Other hazards

This product contains no PBT/vPvB/vPvM chemicals.

This product contains no endocrine disrupting chemicals.

Does NOT contain component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS) per the US EPA PFASMASTER combined list of PFAS chemicals.

Section 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
Aluminium sulfate CAS Number: 10043-01-3 Synonyms: Aluminum sulfate, Aluminum sulfate.	45 - 70	Serious eye damage / eye irritation, category 1;H318 Metal corrosion;H290 Skin corrosion/irritation category 1C;H314*	No data available

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

*PBT/vPvB - PBT, vPvM or vPvB-substance.

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

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].

* Skin corrosion classification based on Corrositex[®] test results. Corrositex[®] is a validated and accepted OECD in vitro test method that assesses if a substance can produce skin corrosion.

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 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.

See section 2 for further details.

Eyes

Causes serious eye damage.

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 packaging.

Do not breathe dust, fume, mist, vapors 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:** Product is not explosive. Contact with metallic substances may release flammable 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.

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

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).

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.

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.

Equip cleanup crew with proper protection.

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 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).

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.

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)

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 Limits

CAS No.	Ingredient	Source	Value
10043-01-3	Aluminium 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**

If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Eyes

Wear chemical safety goggles and face shield. **Where higher splash potential exists** (e.g. loading, unloading, line breaking, sampling of product), wear goggles and face shield with side and chin protection: chemical and impact resistant.

Skin

Wear chemical resistant gloves: Poly vinyl chloride (PVC), nitrile, viton™ (a trademark of the Chemours company), butyl or butyl rubber. Wear chemical resistant clothing. **Where higher splash potential exists** (e.g. loading, unloading, line breaking, sampling of product), wear hard hat and chemical splash shroud, Chemical resistant jacket and pants or bib overalls: PVC, neoprene, PVC coated polyester, or polyester trilaminate gore.

Engineering Controls

Exposure Controls Appropriate Engineering Controls: Emergency eyewash 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 (e.g. PVC, nitrile, viton butyl or butyl rubber), Chemical resistant clothing (e.g. PVC, neoprene, PVC coated polyester, or polyester trilaminate gore), and chemical resistant safety goggles and face shield. Where there is insufficient ventilation: wear respiratory protection.

WHERE HIGHER SPLASH POTENTIAL EXISTS (e.g. loading, unloading, line breaking, sampling of product), wear hard hat and chemical splash shroud, chemical resistant jacket and pants or bib overalls: PVC, neoprene, PVC coated polyester, or polyester trilaminate gore. Follow all posted PPE requirements **AND** wear goggles and face shield with side and chin protection: chemical and impact resistant. 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).

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.

See section 2 for further details.

Information on basic physical and chemical properties

Physical State	Liquid
Color	Clear
Odor	Odorless
Odor threshold	No available information
Melting point / freezing point	-15.56 °C (3.99 °F)
Initial boiling point and boiling range	101 °C (213.8 °F)
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: No available information Upper Explosive Limit: No available information
Flash Point	No available information
Auto-ignition temperature	No available information
Decomposition temperature	No available information
pH	1.4 - 2.6
Viscosity (cSt)	No available information
Solubility in Water	Completely Soluble in water.
Partition coefficient n-octanol/water (Log Kow)	No available information
Vapour pressure (Pa)	No available information
Relative Density	No available information
Vapour Density	No available information
Evaporation rate (Ether = 1)	No available information Not applicable
Specific Gravity	1.30 - 1.35
Other information	No other relevant information.

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 Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Product Acute Toxicity Estimates	NA	NA	NA	NA	NA

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Aluminium sulfate - (10043-01-3)	6,207.00, Mouse - Category: NA	No data available.	No data available.	No data available.	No data available.

Carcinogen Data

CAS No.	Ingredient	Source	Value
10043-01-3	Aluminium sulfate	IARC	No
		ACGIH	No Established Limit

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	1C	Causes severe skin burns and eye damage.
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	---	Not Applicable
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:

Inhalation, ingestion, skin contact, and skin absorption.

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.

Eyes Causes serious eye damage.

Skin Causes severe skin burns and eye damage.

Section 12. Ecological information

Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Aluminium sulfate - (10043-01-3)	186.00, Danio rerio	38.20, Daphnia	No data available.

Persistence and degradability

There is no data available on the preparation itself.

Bioaccumulative potential

No available information

Mobility in soil

No available information

Results of PBT and vPvB assessment

This product contains no PBT/vPvB/vPvM 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 (Domestic Surface Transportation)

UN number	UN3264
UN proper shipping name	UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Contains Aluminum Sulfate), 8, III
Transport hazard class(es)	8
Sub Class	Not Applicable
Packing group	III

TDG (Domestic Surface Transportation)

UN number	UN3264
UN proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s., (contains aluminum sulfate)
Transport hazard class(es)	8

Sub Class	Not Applicable
Packing group	III

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

ICAO/IATA	
UN number	UN3264
UN proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s., (contains aluminum sulfate)
Transport hazard class(es)	8
Sub Class	Not Applicable
Packing group	III

Environmental hazards

IMDG 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.

Toxic Substance Control Act (TSCA) All components of this material are either listed or exempt from listing on the TSCA Inventory.

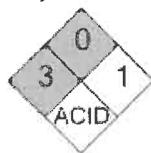
NFPA Ranking

Health (blue) :3

Fire (red) :0

Reactivity (yellow) :1

Special (white) :ACID


Toxic Substance Control Act (TSCA)

Aluminium sulfate

Water

CERCLA Chemicals and RQs (lbs):



Aluminium sulfate (5,000.00)

EPCRA 302 Extremely Hazardous:

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

EPCRA 313 Toxic Chemicals:

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

Canadian Domestic Substance List (DSL):

Aluminium 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%):

Aluminium sulfate

Pennsylvania RTK Substances (>1%):

Aluminium 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)	US TSCA	Australia AICS	Korea ECL	EU EINECS	EU ELINCS	EU SVHC	EN NLP	Mexico INSQ
Aluminium sulfate (10043-01-3)	Yes	Yes	Yes	Yes	No	No	No	Yes



Chemical Name (CAS Number)	China IECSC	Japan ENCS	Japan ISHL	Japan PDSCCL	Japan PRTR 1	Japan PRTR 2	Philippines PICCS	New Zealand NZIOC
Aluminium sulfate (10043-01-3)	Yes	Yes	No	No	No	No	Yes	Yes

Section 16. Other information

Revision Date 02/12/2026

Revision Number 13.1

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.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

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.

End of Document



Section 1. Identification

Product identifier

Product Identity Aluminum Sulfate, Acidized (CHE-5060S)

Other means of identification Not Applicable

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

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.

Restrictions on use:

Not available

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
(416) 496-5856

Chemtrade Logistics Inc. (US)
90 East Halsey Road, Suite 200
Parsippany, NJ 07054
(800) 228- 8558

Emergency

24 hour Emergency Telephone No.

Chemtrade Emergency Contact: (866) 416-4404 (US and Canada)

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

Section 2. Hazard(s) identification

Classification of the substance or mixture

Metal corrosion;H290

May be corrosive to metals.

Skin corrosion/irritation category
2;H315

Causes skin irritation.

Serious eye damage / eye irritation,
category 1;H318

Causes serious eye damage.

Label elements



Danger

H290 May be corrosive to metals.

H315 Causes skin irritation.

H318 Causes serious eye damage.

[Prevention]:

P234 Keep only in original packaging.

P264 Wash thoroughly after handling.

P280 Wear protective gloves, eye protection, and face protection.

[Response]:

P302+352 IF ON SKIN: Wash with plenty of soap and water.

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.

P332+313 If skin irritation occurs: Get medical attention.

P362+364 Take off contaminated clothing and wash it before reuse.

P390 Absorb spillage to prevent material damage.

[Storage]:

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

[Disposal]:

No GHS disposal statements

Other hazards

This product contains no PBT/vPvB/vPvM chemicals.

This product contains no endocrine disrupting chemicals.

Does NOT contain component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS) per the US EPA PFASMASTER combined list of PFAS chemicals.

Section 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
Aluminium sulfate CAS Number: 10043-01-3 Synonyms: Aluminum sulfate, Aluminum sulfate.	30 - 60	Serious eye damage / eye irritation, category 1;H318 Metal corrosion;H290	No data available
Sulfuric acid CAS Number: 7664-93-9 Synonyms: Sulfuric acid (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size), Sulphuric acid	7 - 13	Skin corrosion/irritation category 1A;H314: C ≥ 15 % Skin corrosion/irritation category 2;H315: 5 % ≤ C < 15 % Serious eye damage / eye irritation, category 2;H319: 5 % ≤ C < 15 % Metal corrosion;H290 > 1%	No data available

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

*PBT/vPvB - PBT, vPvM or vPvB-substance.

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

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** Do NOT induce vomiting. Rinse mouth and slowly drink several glasses of water. Call a physician. Do NOT give anything by mouth to an unconscious or convulsing person.
- Most important symptoms and effects, both acute and delayed**
- Overview** Contact with eyes causes serious eye damage. Contact with the skin causes irritation.
Acute Health Effects : the substance causes serious eyes damage and is irritating to the skin.

EYE: Contact causes serious eye damage. Causes permanent damage to the cornea, iris, or conjunctiva. (IMMEDIATE)

SKIN: Causes skin irritation (IMMEDIATE).

INHALATION: May be corrosive to the respiratory tract. (IMMEDIATE) Prolonged exposure may cause irritation of the upper respiratory passages.

INGESTION: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. (IMMEDIATE)

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 damage.
Skin	Causes skin irritation.
Chronic effects	Not available, none known.

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: Oxides of sulfur at high temperatures. Hazardous gases may evolve on contact with chemicals such as cyanides, sulfides, and carbides.

Keep only in original packaging.

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.

Hazardous Combustion Products: Oxides of aluminum. Sulfur oxides. Carbon oxides (CO, CO₂). Nitrogen oxides. Hydrogen chloride, hydrogen cyanide.

Explosion Hazard: Product is not explosive. Contact with metallic substances may release flammable 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.

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

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).

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.

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. Equip cleanup crew with proper protection.

Section 7. Handling and storage

Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

Do not add water to contents while in container because of violent reaction. Always add slowly and in small amounts. Never use hot water. Never add water to acids-always add acids to water..

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

Conditions for safe storage, including any incompatibilities

Store between -5C and 40C.

Comply with applicable regulations.

Incompatible materials: Acids react with most metals to release hydrogen gas which can form explosive mixtures in air. Water, alkaline solutions, metals, metal powder, carbides, chlorates, fuminates, nitrates,

picrates, strong oxidizers, reducers, or combustible organics.

Hazardous gases may evolve on contact with chemicals such as cyanides, sulfides, and carbides.

May be corrosive to metals. May release corrosive vapors.

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

Specific end use(s)

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.

Restrictions on use:

Not available

Section 8. Exposure controls / personal protection

Control parameters

Exposure Limits

CAS No.	Ingredient	Source	Value
7664-93-9	Sulfuric acid	ACGIH	0.2 mg/m ³ (T) Thoracic Fraction
		OSHA	1 mg/m ³
		NIOSH	TWA 1 mg/m ³
		Alberta	1 mg/m ³ TWA 3 mg/m ³ STEL
		British Columbia	0.2 mg/m ³ TWA (contained in strong inorganic acid mists, thoracic)
		Manitoba	0.2 mg/m ³ TWA (thoracic particulate matter)
		New Brunswick	1 mg/m ³ TWA 3 mg/m ³ STEL
		Newfoundland and Labrador	0.2 mg/m ³ TWA (thoracic particulate matter)
		Nova Scotia	0.2 mg/m ³ TWA (thoracic particulate matter)
		Northwest Territories	0.2 mg/m ³ TWA (thoracic fraction, strong acid mists only) 0.6 mg/m ³ STEL (thoracic fraction, strong acid mists only)
		Nunavut	0.2 mg/m ³ TWA (thoracic fraction) 0.6 mg/m ³ STEL (thoracic fraction)
		Ontario	0.2 mg/m ³ TWA (thoracic)
		Prince Edward Island	0.2 mg/m ³ TWA (thoracic particulate matter)
		Quebec	1 mg/m ³ TWA _{EV} 3 mg/m ³ STEV
		Saskatchewan	0.2 mg/m ³ TWA (thoracic fraction) 0.6 mg/m ³ STEL (thoracic fraction)
Yukon	1 mg/m ³ TWA 1 mg/m ³ STEL		
10043-01-3	Aluminium 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



Safety Data Sheet
Aluminum Sulfate, Acidized

Revision Date:
3 November, 2025

		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

If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Eyes

Chemical safety goggles and face shield.

Skin

Wear chemical resistant gloves: Poly vinyl chloride (PVC), nitrile, viton™ (a trademark of the Chemours company), butyl or butyl rubber. Avoid skin contact. Wear protective gloves. Wear suitable protective clothing.

Materials for Protective Clothing: Chemically resistant materials and fabrics.

Engineering Controls

Exposure Controls Appropriate Engineering Controls: Emergency eyewash 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 and face shield. If insufficient ventilation: wear respiratory protection.

When line breaking and where there is higher exposure potential, additional protective clothing may be required. A site-specific PPE hazard assessment is recommended and should be reviewed for any additional requirements that may be needed for specific tasks.

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).

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.

See section 2 for further details.

Section 9. Physical and chemical properties**Information on basic physical and chemical properties**

Physical State	Liquid
Color	clear, amber to light blue-green colored
Odor	Odorless
Odor threshold	No available information
Melting point / freezing point	<-18°C (< 0°F)
Initial boiling point and boiling range	No available information
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: No available information Upper Explosive Limit: No available information
Flash Point	No available information
Auto-ignition temperature	No available information
Decomposition temperature	No available information
pH	<1
Viscosity (cSt)	No available information
Solubility in Water	Completely Soluble in water.
Partition coefficient n-octanol/water (Log Kow)	No available information
Vapour pressure (Pa)	No available information
Relative Density	No available information
Vapour Density	No available information
Evaporation rate (Ether = 1)	No available information 1.25 - 1.28
Other information	No other relevant information.

Section 10. Stability and reactivity**Reactivity**

Corrosive to metals. Contact with metals may evolve flammable hydrogen gas.

Chemical stability

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

Possibility of hazardous reactions

Reacts with some bases.

Conditions to avoid



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

Incompatible materials

Acids react with most metals to release hydrogen gas which can form explosive mixtures in air. Water, alkaline solutions, metals, metal powder, carbides, chlorates, fuminates, nitrates, picrates, strong oxidizers, reducers, or combustible organics.

Hazardous gases may evolve on contact with chemicals such as cyanides, sulfides, and carbides.

Hazardous decomposition products

Oxides of sulfur at high temperatures. Hazardous gases may evolve on contact with chemicals such as cyanides, sulfides, and carbides.

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 Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Product Acute Toxicity Estimates	NA	NA	NA	NA	NA

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Aluminium sulfate - (10043-01-3)	6,207.00, Mouse - Category: NA	No data available.	No data available.	No data available.	No data available.
Sulfuric acid - (7664-93-9)	No data available.	No data available.	No data available.	No data available.	No data available.

Carcinogen Data

CAS No.	Ingredient	Source	Value
7664-93-9	Sulfuric acid	IARC	Group 1
		ACGIH	A2 (in strong inorganic acid mists)
10043-01-3	Aluminium sulfate	IARC	No
		ACGIH	No Established Limit

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/irritation	1	Causes serious eye damage.

Respiratory sensitization	---	Not Applicable
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:

Inhalation, ingestion, skin contact, and skin absorption.

Symptoms and effects, both acute and delayed:

Contact with eyes causes serious eye damage. Contact with the skin causes irritation.

Acute Health Effects : the substance causes serious eyes damage and is irritating to the skin.

EYE: Contact causes serious eye damage. Causes permanent damage to the cornea, iris, or conjunctiva. (IMMEDIATE)

SKIN: Causes skin irritation (IMMEDIATE).

INHALATION: May be corrosive to the respiratory tract. (IMMEDIATE) Prolonged exposure may cause irritation of the upper respiratory passages.

INGESTION: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. (IMMEDIATE)

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

Eyes Causes serious eye damage.

Skin Causes skin irritation.

Chronic effects Not available, none known.

Section 12. Ecological information
Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Aluminium sulfate - (10043-01-3)	186.00, Danio rerio	38.20, Daphnia	No data available.
Sulfuric acid - (7664-93-9)	27.00, Lepomis macrochirus	100.00, Desmodesmus subspicatus	100.00, Desmodesmus subspicatus

Persistence and degradability

There is no data available on the preparation itself.

Bioaccumulative potential

No available information

Mobility in soil

No available information

Results of PBT and vPvB assessment

This product contains no PBT/vPvB/vPvM 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

DOT (Domestic Surface Transportation): This product is excepted from HM regulation when transported in compliance with 49CFR 173.154(d).

Materials corrosive to aluminum or steel only. Except for a hazardous substance, a hazardous waste, or a marine pollutant, a material classed as a Class 8, Packing Group III, material solely because of its corrosive effect.

- (1) On aluminum is not subject to any other requirements of this subchapter when transported by motor vehicle or rail car in a packaging constructed of materials that will not react dangerously with or be degraded by the corrosive material; or
- (2) On steel is not subject to any other requirements of this subchapter when transported by motor vehicle or rail car in a bulk packaging constructed of materials that will not react dangerously with or be degraded by the corrosive material.





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

DOT (Domestic Surface Transportation)	
UN number	UN3264
UN proper shipping name	UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Contains Aluminum Sulfate, Sulfuric Acid), 8, III
Transport hazard class(es)	8
Sub Class	Not Applicable
Packing group	III

TDG (Domestic Surface Transportation)	
UN number	UN3264
UN proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (Contains Aluminum Sulfate, Sulfuric Acid)
Transport hazard class(es)	8
Sub Class	Not Applicable
Packing group	III

IMO / IMDG (Ocean Transportation)	
UN number	UN3264
UN proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (Contains Aluminum Sulfate, Sulfuric Acid)
Transport hazard class(es)	8
Sub Class	Not Applicable
Packing group	III

ICAO/IATA	
UN number	UN3264
UN proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (Contains Aluminum Sulfate, Sulfuric Acid)
Transport hazard class(es)	8
Sub Class	Not Applicable
Packing group	III

Environmental hazards
IMDG 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.

Toxic Substance Control Act (TSCA) All components of this material are either listed or exempt from listing on the TSCA Inventory.

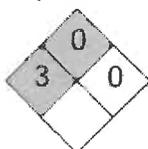
NFPA Ranking

Health (blue) :3

Fire (red) :0

Reactivity (yellow) :0

Special (white) :--



Note: Strong inorganic acid mists containing sulfuric acid are listed on the California Proposition 65 Carcinogen List. [Sulfuric acid, in and of itself, is not listed under Proposition 65. However, if one has sulfuric acid, which through its intended use generates an acid mist that in turn contains sulfuric acid that would meet the listing. The term "strong" does not refer to the concentration of the acid, but rather the strength of the acid. The basis for the listing of strong inorganic acid mists containing sulfuric acid was the formal identification by the National Toxicology Program (NTP), in its Ninth Report on Carcinogens, that this chemical mixture is "known to be a human carcinogen." (Public notice available at http://www.oehha.ca.gov/prop65/CRNR_notices/admin_listing/intent_to_list/noil19b4.html.)]

Toxic Substance Control Act (TSCA)

Aluminium sulfate

Sulfuric acid

Water

CERCLA Chemicals and RQs (lbs):

Aluminium sulfate (5,000.00)

Sulfuric acid (1,000.00)

EPCRA 302 Extremely Hazardous:

Sulfuric acid

EPCRA 313 Toxic Chemicals:

Sulfuric acid

Canadian Domestic Substance List (DSL):

Aluminium sulfate

Sulfuric acid

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%):

Aluminium sulfate
Sulfuric acid

Pennsylvania RTK Substances (>1%):

Aluminium sulfate
Sulfuric acid

Proposition 65 - Carcinogens (>0.0%):

Sulfuric acid

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:


WARNING: This product can expose you to chemicals including [Sulfuric acid], which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Note: Strong inorganic acid mists containing sulfuric acid are listed on the California Proposition 65 Carcinogen List. [Sulfuric acid, in and of itself, is not listed under Proposition 65. However, if one has sulfuric acid, which through its intended use generates an acid mist that in turn contains sulfuric acid that would meet the listing. The term "strong" does not refer to the concentration of the acid, but rather the strength of the acid. The basis for the listing of strong inorganic acid mists containing sulfuric acid was the formal identification by the National Toxicology Program (NTP), in its Ninth Report on Carcinogens, that this chemical mixture is "known to be a human carcinogen." (Public notice available at http://www.oehha.ca.gov/prop65/CRNR_notices/admin_listing/intent_to_list/noil19b4.html.)]

Chemical Name (CAS Number)	US TSCA	Australia AICS	Korea ECL	EU EINECS	EU ELINCS	EU SVHC	EN NLP	Mexico INSQ
Aluminium sulfate (10043-01-3)	Yes	Yes	Yes	Yes	No	No	No	Yes
Sulfuric acid (7664-93-9)	Yes	Yes	Yes	Yes	No	No	No	Yes



Safety Data Sheet
Aluminum Sulfate, Acidized

Revision Date:
3 November, 2025

Chemical Name (CAS Number)	China IECSC	Japan ENCS	Japan ISHL	Japan PDSCL	Japan PRTR 1	Japan PRTR 2	Philippines PICCS	New Zealand NZIOC
Aluminium sulfate (10043-01-3)	Yes	Yes	No	No	No	No	Yes	Yes
Sulfuric acid (7664-93-9)	Yes	Yes	Yes	Yes	No	No	Yes	Yes

Section 16. Other information

Revision Date 11/03/2025

Revision Number 7

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.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

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.

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