

**TOWN OF DENTON
4 N. 2nd STREET, DENTON, MD 21629**

**BULK CHEMICALS FOR WATER AND WASTEWATER TREATMENT
REQUEST FOR PROPOSALS**

ADDENDUM 01
August 15, 2025

PURPOSE

Please be advised that the Town of Denton has issued an addendum for the Bulk Chemicals Purchase RFP.

The bid due date remains Friday, September 5th, 2025, at 2:00pm.

The attention of prospective bidders is directed to the following questions received and associated responses regarding the Request for Proposals. The Bidder is responsible for notifying their Subcontractors regarding items covered by all Addenda.

QUESTIONS RECEIVED & RESPONSES

1. Question: Could you provide a 2024 Bid Tabulation?
Response: We do not have a 2024 Bid Tabulation.
2. Question: If our primary business offices are outside of 100 miles we are prohibited from bidding?
Response: Per the original RFP, yes, the primary business address cannot be located more than 100 miles from Denton, Maryland. However, we have updated this distance to 150 miles.
3. Question: Do all sites accept full size tractor trailers?
Response: No
4. Question: Tank sizes Methanol and Aluminum Chloride at WWTP?
Response: Methanol – 1,000 gallons; Aluminum Chloride – 6,000 gallons

5. Question: Tank sizes for all (3) Sodium hypochlorite tanks?
Response: 165 gallons
6. Question: Do all sites have eye washes and safety showers and what is their proximity?
Response: Yes
7. Question: Is there grounding at the methanol site?
Response: Yes
8. Question: What length hose is required for delivery of all materials?
Response: This information is to be confirmed by the bidder dependent on their needs.
9. Question: Who is currently supplying these materials?
Response: Hawkins, Inc.
10. Question: Can you provide the previous bid tabulation prices?
Response: We do not have previous bid tabulations.
11. Question: Are all prices firm for the three-year period or can we request an increase after (1) year?
Response: Prices are firm for the three-year period.
12. Question: Is the extension at the sole option of the Town of Denton and must all prices, terms and conditions remain the same?
Response: Both the Town of Denton and the applicable company are to be in agreement for consideration of an extension. Terms and conditions are to remain the same, however pricing may be reevaluated.
13. Question: Can you provide a technical data sheet or specs for the aluminum chloride?
Response: Yes, see attached certificate of analysis.
14. Question: Do you plan on awarding this to the lowest bidder for each individual material or are you awarding this to the lowest overall bidder?
Response: We are currently evaluating the possibility of awarding by individual material rather than awarding to the lowest overall bidder. Final award decisions will be based on a combination of pricing, vendor qualifications, and overall value, depending on what is in the best interest of the Town.
15. Question: There are many different options for aluminum chloride solution or poly aluminum chloride solutions. We wouldn't know what material to bid without the specifications of what you require or are currently using?
Response: We require straight aluminum chloride, not any other variation. See attached SDS and certificate of analysis.

16. Question: Is this aluminum chloride 28% 32B? Does it need to NSF?

Response: It is used for phosphorus reduction in wastewater. See attached certificate of analysis.

17. Question: Is there any way someone from the treatment plant can provide a certificate of analysis for the aluminum chloride they are receiving? Do you require the material to be NSF?

Response: See attached certificate of analysis.

18. Question: Is the bidder required to bid on all 3 materials?

Response: No, the bidder is not required to bid on all 3 materials.

19. Question: How is the product received, drums, totes, transferred to a tank?

Response:

- a. Sodium Hypochlorite has been delivered in 330 gal. totes from a flatbed truck.
- b. Methanol has been delivered in tractor trailer though difficult to maneuver around the plant.
- c. Aluminum Chloride is delivered by tractor trailer.

20. Question: If transferred to a tank, what size tank at each location?

Response:

- a. Methanol – 1,000 gallons
- b. Aluminum Chloride – 6,000 gallons
- c. Sodium Hypochlorite – 165 gallons

21. Question: What is the minimum delivery quantity delivered to each location?

Response: They call when needed.
Sodium Hypochlorite ~100 gals.
Methanol ~700 gals.
Alum Chloride ~4,000 gals.

22. Question: Does the WWTP site with 6,000-gallon tank accept full size tractor trailers?

Response: Yes.

23. Question: What is the typical delivery volume you receive of Aluminum Chloride? Is a FTL of 4,000 gallons?

Response: Yes.

RFP REVISIONS

1. Section C Information to Bidders, Item C.3 Qualifications – Revise the following sentence “Primary business address cannot be located more than 100 miles from Denton, Maryland” to “**Primary business address cannot be located more than 150 miles from Denton, Maryland.**”

ATTACHMENTS

1. SDS and Certificate of Analysis for the aluminum chloride currently being provided.

*** END OF ADDENDUM NO. 01 ***

Chemical Safety Data Sheet MSDS / SDS

Aluminum chloride

Revision Date:2025-02-01 Revision Number:1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product name : Aluminum chloride
CBnumber : CB6247076
CAS : 7446-70-0
EINECS Number : 231-208-1
Synonyms : AlCl₃,aluminum chloride

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

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.
Uses advised against : none

Company Identification

Company : Chemicalbook
Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing
Telephone : 400-158-6606

SECTION 2: Hazards identification

GHS Label elements, including precautionary statements

Symbol(GHS)



Signal word

Danger

Precautionary statements

P201 Obtain special instructions before use.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continuerinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container to.....

Hazard statements

H290 May be corrosive to metals

H314 Causes severe skin burns and eye damage

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H351 Suspected of causing cancer

H372 Causes damage to organs through prolonged or repeated exposure

H412 Harmful to aquatic life with long lasting effects

SECTION 3: Composition/information on ingredients

Substance

Product name	: Aluminum chloride
Synonyms	: AlCl ₃ , aluminum chloride
CAS	: 7446-70-0
EC number	: 231-208-1
MF	: AlCl ₃
MW	: 133.34

SECTION 4: First aid measures

Description of first aid measures

General advice

Consult a physician. Show this material safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

Notes to physician

No data available

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Dry powder Dry sand

Unsuitable extinguishing media

Do NOT use water jet.

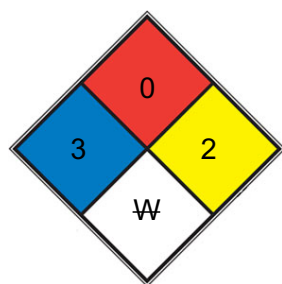
Special hazards arising from the substance or mixture

Hydrogen chloride gas Aluminum oxide

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

NFPA 704



■	HEALTH	3	Short exposure could cause serious temporary or moderate residual injury (e.g. liquid hydrogen , sulfuric acid , calcium hypochlorite , hexafluorosilicic acid)
■	FIRE	0	Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand. Materials that will not burn in air when exposed to a temperature of 820 °C (1,500 °F) for a period of 5 minutes.(e.g. Carbon tetrachloride)
■	REACT	2	Undergoes violent chemical change at elevated temperatures and pressures, reacts violently with water, or may form explosive mixtures with water (e.g. white phosphorus, potassium , sodium)
□	SPEC. HAZ.	W	

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

Precautions for safe handling

Advice on safe handling

Avoid formation of dust and aerosols.

Advice on protection against fire and explosion

Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage.

Store under inert gas. Vent periodically. Handle and open container with care. Reacts violently with water.

SECTION 8: Exposure controls/personal protection

control parameter

Hazard composition and occupational exposure limits

Does not contain substances with occupational exposure limits.

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as

NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatrill? (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatrill? (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This

recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, Flame retardant protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full- face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

Information on basic physicochemical properties

Appearance	light yellow powder
Odour	stinging
Odour Threshold	No data available
pH	2.4 at 100 g/l at 20 °C
Melting point/freezing point	Melting point/range: 190 °C - lit.
Initial boiling point and boiling range	181.2 °C at 1,013 hPa - (ECHA)
Flash point	Not applicable
Evaporation rate	No data available
Flammability (solid, gas)	The product is not flammable.
Upper/lower flammability or explosive limits	No data available

Vapour pressure	1 hPa at 20 °C
Vapour density	No data available
Relative density	2.44
Water solubility	450 g/l at 20 °C - (decomposition)
Partition coefficient: n-octanol/water	Not applicable for inorganic substances
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
Explosive properties	No data available
Oxidizing properties	No data available

Other safety information

No data available

SECTION 10: Stability and reactivity

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Reacts violently with water.

Conditions to avoid

Exposure to moisture.

Incompatible materials

No data available

Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 3,450 mg/kg

Remarks: (RTECS) Inhalation

LD50 Dermal - Rabbit - > 2,000 mg/kg Remarks: (RTECS)

Skin corrosion/irritation

Skin - Human

Result: Causes burns. Remarks: (IUCLID) Skin - In vitro study Result: Corrosive

(OECD Test Guideline 435)

Serious eye damage/eye irritation

Causes serious eye damage. Eyes - Human

Result: Causes burns.

Remarks: (IUCLID)

Respiratory or skin sensitization

Patch test: - Human

Result: negative Remarks: (IUCLID)

Sensitisation test: - Guinea pig Result: negative

(OECD Test Guideline 406)

Germ cell mutagenicity

Test Type: In vivo micronucleus test Species: Rat

Cell type: Bone marrow Application Route: Oral

Method: OECD Test Guideline 474 Result: negative

Remarks: (in analogy to similar products)

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Toxicity

LD50 oral (rat) 3730 mg/kg

LD50 skin (rabbit) >2 g/kg

TLV-TWA (ACGIH) 2 mg(AI)/m³

SECTION 12: Ecological information

Toxicity

Toxicity to bacteria

Persistence and degradability

Not applicable for inorganic substances

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Toxics Screening Level

The initial threshold screening level (ITSL) for Aluminum Chloride is 20 µg/m³ based on an 8 hour averaging time.

Other adverse effects

No data available

SECTION 13: Disposal considerations

Waste treatment methods

Product

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Incompatibilities

A strong reducing agent. Contact with air or water forms hydrochloric acid and hydrogen chloride gas. Reaction with water may be violent. Water, alcohol, and alkenes can cause polymerization. Incompatible with nitrobenzene, organic material, and bases. Attacks metal in presence of moisture, forming flammable hydrogen gas.

Waste Disposal

May be sprayed with aqueous ammonia in the presence of ice and, when reaction is complete, flushed down drain with running water.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

UN number

ADR/RID: 1726 IMDG: 1726 IATA-DGR: 1726

UN proper shipping name

ADR/RID: ALUMINIUM CHLORIDE, ANHYDROUS IMDG: ALUMINIUM CHLORIDE, ANHYDROUS

IATA-DGR: Aluminium chloride, anhydrous

Transport hazard class(es)

ADR/RID: 8 IMDG: 8 IATA-DGR: 8

Packaging group

ADR/RID: II IMDG: II IATA-DGR: II

Environmental hazards

ADR/RID: yes IMDG Marine pollutant: yes IATA-DGR: no

Special precautions for user

Based on chemical properties, choose appropriate tools and conditions of transport. Transporting tools shall be equipped with appropriate and sufficient firefighting equipment and emergency leaking installations. If transporting by road, please go along the specified route.

Incompatible materials

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations on the Safety Management of Hazardous Chemicals

China Catalog of Hazardous chemicals 2015: Listed. website: <https://www.mem.gov.cn/>

Measures for Environmental Management of New Chemical Substances

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed. website: <https://emb.gov.ph/>

United States Toxic Substances Control Act (TSCA) Inventory: Listed. website: <https://www.epa.gov/>

Korea Existing Chemicals List (KECL): Listed. website: <http://ncis.nier.go.kr>

EC Inventory: Listed.

New Zealand Inventory of Chemicals (NZIoC): Listed. website: <https://www.epa.govt.nz/>

European Inventory of Existing Commercial Chemical Substances (EINECS): Listed. website: <https://echa.europa.eu/>

Chinese Chemical Inventory of Existing Chemical Substances (China IECSC): Listed. website: <https://www.mee.gov.cn/>

Vietnam National Chemical Inventory: Listed. website: <https://chemicaldata.gov.vn/>

SECTION 16: Other information

Abbreviations and acronyms

CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

References

【1】CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>

【2】ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>

【3】ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>

【4】 eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website:

http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en

【5】 ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: <http://www.phmsa.dot.gov/hazmat/library/erg>

【6】 Germany GESTIS-database on hazard substance, website: <http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>

【7】 HSDB - Hazardous Substances Data Bank, website: <https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>

【8】 IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>

【9】 IPCS - The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>

【10】 Sigma-Aldrich, website: <https://www.sigmaaldrich.com/>

Other Information

Reacts violently with fire extinguishing agents such as water, foam. NEVER pour water into this substance; when dissolving or diluting always add it slowly to the water.

Disclaimer:

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.



CERTIFICATE OF ANALYSIS

ALUMINUM CHLORIDE SOLUTION

Aluminum Chloride
Facility: Cambridge, MD USA

Effective Date	June 9, 2025
Lot Number	1215324
Al ₂ O ₃	10.860257%
Aluminum Chloride	27.900000%
Baume @ 60 F	32.072207
Free Hydrochloric Acid	0.131188 %
Iron (Fe)	0.058033 ppm
Specific Gravity	1.284236
Appearance	Clear Solution



Certified to NSF / ANSI 60