

SAFETY DATA SHEET

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

1.1 Product identifiers

Product name Aluminum Sulfate, Crystals ACS Grade

CAS number 7784-31-8

Synonyms Papermaker's Alum

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

Identified uses Reagent, coagulating agent, water purification

1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Serious eye damage Category 1

2.2 GHS Label elements, including precautionary statements

Pictogram



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Signal Word Danger

Hazard statements Causes serious eye damage.

Precautionary If medical advice is needed, have product container or label at hand. statements: Keep out of reach of children. Read label before use. Wash skin

thoroughly after handling. Wear protective gloves/protective clothing/eye procation/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing. Immediately call a POISON CENTER or

doctor/physician.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS



SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Aluminum Sulfate	ninum Sulfate Papermaker's alum		100%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

If inhaled Loosen clothing as necessary and position individual in a comfortable position.

Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Get medical assistance if cough or other symptoms appear.

In case of skin contact Rinse/flush exposed skin gently using soap and water for 15-20 minutes. Seek

medical advice if discomfort or irritation persists.

In case of eye contact Protect unexposed eye. Remove contact lenses if able to do so during rinsing.

Rinse or flush eye gently with water for at least 30 minutes, lifting upper and

lower lids. Seek immediate medical attention (ophthalmologist).

If swallowed Rinse mouth thoroughly. Do not induce vomiting. Seek medical attention if

irritation, discomfort, or vomiting persists. Never give anything by mouth to an

unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

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Irritation/burns, all routs of exposure. May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause severe burns, blindness and/or permanent damage. Headache. Nausea. Shortness of breath.

4.3 Indication of any immediate medical attention and special treatment needed

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use water, dry chemical, chemical foam, carbon

dioxide, or alcohol-resistant foam.

Unsuitable extinguishing media No information available.

5.2 Specific hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

5.3 Special protective equipment and precautions for firefighters

Wear protective eyeware, gloves, and clothing. Refer to Section 8. Use NIOSH-approved respiratory protection/breathing apparatus. Avoid inhaling gases, fumes, dust, mist, vapors, and aerosols. Avoid contact with skin, eyes, and clothing.

5.4 Further information

Flash Point No information available.

Autoignition Temperature No information available

Explosion limits

UpperNo data availableLowerNo data available

Sensitivity to Mechanical Impact
Sensitivity to Static Discharge
No information available
No information available

NFPA

Health	Flammability	Instability	Physical hazards
2	0	0	0

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Ensure that air-handling systems are operational.

6.2 Environmental precautions

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Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

6.3 Methods and materials for containment and cleaning up

Wear protective eyeware, gloves, and clothing. Refer to Section 8. Always obey local regulations. Containerize for disposal. Refer to Section 13. If necessary use trained response staff or contractor. Evecuate personnel to safe areas. Keep in suitable closed containers for disposal.

6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

Avoid contact with skin, eyes, and clothing. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances.

Hygiene measures

Follow good hygiene procedures when handling chemical materials. Refer to Section 8.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed.

Incompatibilities

Store away from incompatible materials.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

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

Component	Type	Value
Aluminum Sulfate	PEL	10 mg/m3

US. ACGIH Threshold Limit Values

Component	Type	Value	
Aluminum Sulfate	TWA	10 mg/m3	

US. NIOSH: Pocket Guide to Chemical Hazards

No information available.

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Biological occupational exposure limits

No information available.

8.2 Exposure controls

Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinty of use or handling. Provide exhaust ventilation or other enginering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits - OELs) indicated above.

Personal protective equipment

Eye/face protection

Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166. Safety glasses or goggles are appropriate eye protection.

Skin and body protection

Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffustion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing.

Respiratory protection

Not required under normal conditions of use. Where risk assessment shows airpurifying respiratores are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respiratory cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

Control of environmental exposure

No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Solid
Appearance Colorless
Odor Odorless

Odor Threshold
pH
No information available
Roaporation Rate
No information available
Flammability (solid)
No information available

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Flammability or explosive limit

Vapor Pressure

Upper No data available Lower No data available

Vapor Density

Density

No information available
Viscosity

No information available

Molecular Formula Al2(SO4)3
Molecular Weight 342.15 g/mol

VOC Content(%)

Oxidizing properties

No information available

No information available

9.2 Other safety information

No information available.

SECTION 10: Stability and reactivity

No information available

10.1 Reactivity

Nonreactive under normal conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Incomptatible materials

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Sulfur oxides, aluminum oxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component		LD50 Oral	LD50 Dermal	LC50 Inhalation
	Aluminum Sulfate, anhydrous 1930 mg/kg		-	-
	Aluminum Sulfate, hydrated	>5000 mg/kg (rat)	-	-

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Skin corrosion/irritation

No information available.

Serious eye damage/eye irritation

Classified as causing serious eye damage.

Respiratory or skin sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Aluminum Sulfate	7784-31-8	Not listed				

Specific target organ toxicity - single exposure

No information available

Specific target organ toxicity - repeated exposure

No information available

Reproductive toxicity

No information available

Chronic effects

No information available

11.2 Additional Information

No information available.

SECTION 12: Ecological information

12.1 Toxicity

Product		Species	Test Results
Aluminum Sulfate	LC50	Orcorhynchus mykiss (Rainbow trout)	91 μg/L 144 hr
Aluminum Sunate	LC50	Dreissena polymorpha (Zebra mussel)	76.1 mg/L 3 hr

12.2 Persistence and degradability

No information available.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

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No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US)

No information available.

IMDG

No information available

IATA

No information available.

SECTION 15: Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Listed (ALUMINUM SULFATE (7784-31-8))

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed

SARA 304 Emergency release notification

Not listed

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
SARA 302 Extremely hazardous substance

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Not listed.

SARA 311/312 Hazardous

Not listed

SARA 313 (TRI reporting)

Not listed

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not listed

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not listed

Safe Drinking Water Act

Not listed

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed

US state regulations

US. Massachusetts RTK - Substance List

Not listed

US. New Jersey Worker and Community Right-to-Know Act

Not listed

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed

California Proposition 65

Not listed

SECTION 16: Other information

Issue date: 07/17/2024

Revision: 0

SECTION 17: Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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