Alsulant 570

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Revision Date: 5/15/2023 Date of Issue: 5/15/2023 Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Aluminum Sulfate Solution

Product Name: Alsulant 570

1.2. Intended Use of the Product

Water Treatment Chemical For professional use only.

1.3. Name, Address, and Telephone of the Responsible Party

Company

Synthex Organics, LLC
4601 Cortland Avenue
Altoona, PA 16601
(814) 941 - 8375
www.synthexorganics.net

1.4. Emergency Telephone Number

Emergency Number : Call CHEMTREC Day or Night 1 (800) 424 - 9300 / +1 (703) 527 – 3887

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US/CA Classification

Eye damage, Category 1
Aquatic Acute, Category 1
Aquatic Chronic, Category 1
Full text of hazard classes and H-statements : see section 16

2.2. Label Elements

GHS-US/CA Labeling

Hazard Pictograms (GHS-US):

Signal Word (GHS-US): Danger

Hazard Statements (GHS-US):
Causes serious eye damage
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects

Precautionary Statements (GHS-US):
Wear eye protection / face protection.
Avoid release to the environment.
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/doctor.
Collect spillage.
Dispose of contents/container in accordance with local/regional/national/international regulations

2.3 Other Hazards None.

2.4. Unknown Acute Toxicity (GHS-US/CA)

57 percent of the mixture consists of ingredient(s) of unknown toxicity

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Hazardous Ingredient(s)	% wt.*	CAS No.	Hazard classification
Aluminum Sulfate	40-60%	10043-01-3	Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410
Water	>50	7732-18-5	Not classified as dangerous for supply/use.

Additional Information - Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below: None

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist. In case of unconsciousness, place patient securely on side position for transportation.

First-aid Measures After Skin Contact: Wash with water and soap and rinse thoroughly.

First-aid Measures After Eye Contact: Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

First-aid Measures After Ingestion: If conscious, rinse mouth with water ensuring that the rinse is not swallowed. Seek medical assistance.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

No further relevant information available.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

No further relevant information available.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: CO_2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable Extinguishing Media: None anticipated

5.2. Special Hazards Arising From the Substance or Mixture

Sulphur oxides, Aluminum oxide.

5.3. Advice for Firefighters

Precautionary Measures Fire: Wear protective equipment. Keep unprotected persons away.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. Inform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

Protection During Firefighting: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Hazardous Combustion Products: Thermal oxidative decomposition of Aluminum Sulfate occurs at temperatures greater than 1400°F and can produce sulfur oxides.

Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Use personal protection recommended in Section 8. Keep unnecessary people away, isolate hazard area and deny entry.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Wear protective equipment. Keep unprotected persons away.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Inform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

6.2. Environmental Precautions

Do not release into sewers or waterways. For spills in excess of allowable limits (RQ) notify the National Response Center (800) 424-8802; refer to SARA Title III, Section 313 40 CFR 372, and CERCLA 40 CFR 302 for detailed instructions concerning reporting requirements. Notify Local Emergency Planning Committee (LEPC) and State Emergency Response Commission (SERC) for a release greater than or equal to Reportable Quantities (RQ). Refer to U.S. SARA Section 304. See Section 12 for additional Ecological Information.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Methods for Cleaning Up: Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Dispose of the collected material according to regulations.

6.4. Reference to Other Sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: May be corrosive to metals.

Precautions for Safe Handling: Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: *Comply with applicable regulations.*

Storage Conditions: Store in a cool, dry place. Store in a well ventilated place. Keep receptacle tightly sealed.

Incompatible Materials: Strong oxidizing agents. No further relevant information available.

Packaging materials: *Store in corrosive resistant container with a resistant inner liner.*

7.3. Specific End Use(s)

Water treatment chemical, For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Occupational Exposure Limits

· Components with occupational exposure limits: 10043-01-3 aluminNoum sulphate

REL Long-term value: 2 mg/m³ as Al

TLV Long-term value: 1* mg/m³ as Al;*as respirable fraction

8.2. Exposure Controls

Appropriate Engineering Controls: The usual precautionary measures for handling chemicals should be followed. Immediately remove all soiled and contaminated clothing and wash before reuse. Wash hands before breaks and at the end of work. Avoid contact with the eyes.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles.

Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Protective gloves. The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

Eye Protection: Tightly sealed goggles.

Skin and Body Protection: Wear appropriate chemical resistant clothing including chemical resistant gloves.

Respiratory Protection: NIOSH/OSHA or EN approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits.

WARNING!: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	:	Liquid
Appearance	:	Colorless to amber or clear light green liquid
Odor	:	Not determined
Odor Threshold	:	Not determined
pH	:	Not determined

Evaporation Rate	:	Not determined
Freezing Point	:	Not determined
Boiling Point	:	Not determined
Flash Point	:	Will not burn
Auto-ignition Temperature	:	Product is not self-igniting
Decomposition Temperature	:	Not determined
Flammability (solid, gas)	:	Not applicable
Lower Flammable Limit	:	Not applicable
Upper Flammable Limit	:	Not applicable
Vapor Pressure	:	Similar to water
Relative Vapor Density at 20°C	:	Similar to water
Specific Gravity	:	±1.3 @15.5 °C
Solubility	:	Fully miscible
Partition Coefficient: N-Octanol/Water	:	Not available
Viscosity	:	Not available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Stable under normal conditions.

10.2. Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

10.4. Conditions to Avoid: Strong oxidizing agents

10.5. Incompatible Materials: Strong oxidizing agents, No further relevant information available

10.6. Hazardous Decomposition Products: Thermal oxidative decomposition of Aluminum Sulfate occurs at temperatures greater than 1400°F and can produce sulfur oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

Eye Contact	Strong irritant with the danger of severe eye injury
Skin Contact	May cause skin irritation.
Inhalation	Avoid breathing vapors or mists.
Ingestion	Do not taste or swallow. May be harmful if swallowed.

Acute Toxicity -Product (Oral): Not classified, no data available

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Aluminum Sulfate 10043-01-3	= 1930 mg/kg (Rat)	-	-
Water 7732-18-5	> 90 mL/kg (Rat)	-	-

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP

Mutagenicity Not determined

Toxicity for reproduction Not determined

Reproductive toxicity Not determined

Other information None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Ecotoxicity

Component Information

Chemical Name	Crustacea
Alsulant 570	184.6 Daphnia magna mg/L 48 Hr LC50

Persistence and degradability Not determined

Bioaccumulative potential Not determined

Mobility in soil Not determined

Other adverse effects Very toxic for fish. Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system. Poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal of Wastes Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.

Contaminated Packaging Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

DOT/ADR/IATA

UN/ID No Non-Regulated Material

Proper Shipping Name

Hazard Class

Packing Group

Reportable Quantity (RQ)

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

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

Section 355 (extremely hazardous substances): None of the ingredients are listed.

Section 313 (Specific toxic chemical listings): None of the ingredients are listed.

TSCA (Toxic Substances Control Act): All ingredients are listed.

California Proposition 65

Chemicals known to cause cancer: None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed.

Chemicals known to cause developmental toxicity: None of the ingredients are listed.

Carcinogenic categories

EPA (Environmental Protection Agency) None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH) None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients are listed.

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms

GHS05 GHS09

National regulations:

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

State Right to Know

CAS: 10043-01-3 RTECS: BD 1700000 aluminum sulphate Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 40-60%
All ingredients are listed.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

The following sections contain revisions or new statements: 1-16.

Date of preparation: May 15, 2023

	Health Hazards	Flammability	Reactivity	Special Hazards
NFPA	2	0	0	Not determined
	Health Hazards	**Fire**	**Reactivity**	
HMIS	2	0	0	

Training advice: None.

Abbreviations and acronyms:

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

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment – Acute Hazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

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