Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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Revision: July 17, 2020

1 Identification
· Product identifier
 Trade name: Aluminum Sulfate 1M Product code: AL7530SS
 Recommended use and restriction on use Recommended use: Laboratory chemicals Restrictions on use: No relevant information available.
 Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: AquaPhoenix Scientific 860 Gitts Run Road, Hanover, PA 17331 (717) 632-1291
 Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)
2 Hazard(s) identification
Classification of the substance or mixture
• Classification of the substance or mixture Met. Corr.1 H290 May be corrosive to metals.
• Classification of the substance or mixture Met. Corr.1 H290 May be corrosive to metals. Eye Dam. 1 H318 Causes serious eye damage.
• Classification of the substance or mixture Met. Corr.1 H290 May be corrosive to metals.
 Classification of the substance or mixture Met. Corr.1 H290 May be corrosive to metals. Eye Dam. 1 H318 Causes serious eye damage. Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
 Classification of the substance or mixture Met. Corr.1 H290 May be corrosive to metals. Eye Dam. 1 H318 Causes serious eye damage. Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms:

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36%

64%

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P390 P406

Absorb spillage to prevent material damage.

Store in corrosive resistant container with a resistant inner liner.

• Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:

10043-01-3 Aluminum sulfate

Met. Corr.1, H290; Eye Dam. 1, H318

7732-18-5 Water

• Additional information: For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

[•] Description of first aid measures

• After inhalation: Supply fresh air; consult doctor in case of complaints.

• After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

• After eye contact:

Protect unharmed eye.

Remove contact lenses if worn.

Rinse opened eye for 15 to 20 minutes under running water. Then consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed:

Strong irritant with the danger of severe eye injury.

Causes mild skin irritation.

Gastric or intestinal disorders when ingested.

· Danger:

Causes serious eye damage.

Danger of gastric perforation.

Indication of any immediate medical attention and special treatment needed:

Medical supervision for at least 48 hours.

If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

Extinguishing media

• Suitable extinguishing agents: Use fire fighting measures that suit the environment.

- · For safety reasons unsuitable extinguishing agents: No relevant information available.
- Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

Advice for firefighters

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· Protective equipment:

Wear self-contained respiratory protective device. Wear fully protective suit.

6 Accidental release measures

[•] Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Environmental precautions Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up

Wipe up small spills with paper towel and discard.

For larger spills, add sawdust, chalk or other inert binding material, then sweep up and discard. Clean the affected area carefully; suitable cleaners are:

Warm water

Send for recovery or disposal in suitable receptacles.

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.

7 Handling and storage

[·] Handling

• Precautions for safe handling:

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Information about protection against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities

• Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Unsuitable material for receptacle: steel.

Avoid storage near extreme heat.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

Do not store together with alkalis (caustic solutions).

Store away from metals.

Further information about storage conditions: Keep containers tightly sealed.

• Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

Control parameters

• Components with limit values that require monitoring at the workplace:

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The following	(Cont'd. of pag constituent is the only constituent of the product which has a PEL, TLV or oth
recommended e	
10043-01-3 Alu	uminum sulfate
REL (USA) Lor	ng-term value: 2 mg/m ³
) as a	
	ng-term value: 1* mg/m³
as <i>i</i>	Al;*as respirable fraction
· Exposure cor	ntrols
	ctive and hygienic measures:
	autionary measures for handling chemicals should be followed.
	n foodstuffs, beverages and feed.
	move all soiled and contaminated clothing.
	efore breaks and at the end of work.
· Breathing equi	ontrols: Provide adequate ventilation.
	ider normal conditions of use.
	spiratory protective device when high concentrations are present.
· Protection of h	
Protect	tive gloves
	ation for a suitable glove material is not available. Testing will be required to determine to potential glove materials.
Safety	glasses
Follow relevant	national guidelines concerning the use of protective eyewear.
	on: Protective work clothing
	nd supervision of exposure into the environment
	ormation available.
RISK manage	ment measures No relevant information available.
9 Physical and	d chemical properties
	d chemical properties
· Information o · Appearance:	
· Information o · Appearance: Form:	on basic physical and chemical properties
· Information o · Appearance: Form: Color:	on basic physical and chemical properties Liquid Colorless
 Information o Appearance: Form: Color: Odor: 	on basic physical and chemical properties Liquid Colorless Characteristic
 Information o Appearance: Form: Color: Odor: Odor threshold 	on basic physical and chemical properties Liquid Colorless Characteristic d: Not determined.
 Information o Appearance: Form: Color: Odor: 	Description basic physical and chemical properties Liquid Colorless Characteristic Not determined. 0°C (68 °F):

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>105 °C (>221 °F) (Estimate)	
Not applicable.	
Not applicable.	
Not determined.	
Not determined.	
Product does not present an explosion hazard.	
Not determined. Not determined. Non-oxidizing.	
23 hPa (17.3 mm Hg)	
1.61 g/cm³ (13.44 lbs/gal) Not determined. Not determined. Not determined.	
Fully miscible.	
er): Not determined.	
Not determined. Not determined. No relevant information available.	
	Not applicable. Not applicable. Not determined. Not determined. Product does not present an explosion hazard. Not determined. Not determined. Not determined. Non-oxidizing. 23 hPa (17.3 mm Hg) 1.61 g/cm³ (13.44 lbs/gal) Not determined. Not determined.

10 Stability and reactivity

• **Reactivity:** No relevant information available.

· Chemical stability: Stable under normal temperatures and pressures.

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

[•] Possibility of hazardous reactions

Reacts with strong oxidizing agents.

Reacts with strong alkali.

Corrosive action on metals.

Toxic fumes may be released if heated above the decomposition point.

· Conditions to avoid No relevant information available.

· Incompatible materials

Alkalis.

Oxidizers Metals.

Hazardous decomposition products

Under fire conditions only:

Metal oxide smoke.

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Sulfur oxides (SOx)

11 Toxicological information

Information on toxic	cological effects
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· Acute toxicity: Based on available data, the classification criteria are not met.

- LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:

· On the skin:

Causes mild skin irritation.

Based on available data, the classification criteria are not met.

 \cdot On the eye: Strong irritant with the danger of severe eye injury.

• Sensitization: Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

• NTP (National Toxicology Program):

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

 \cdot Acute effects (acute toxicity, irritation and corrosivity):

Causes serious eye damage.

Causes mild skin irritation.

- · Repeated dose toxicity: No relevant information available.
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- · Reproductive toxicity: Based on available data, the classification criteria are not met.
- STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

- · Toxicity
- · Aquatic toxicity No relevant information available.
- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.
- [•] Additional ecological information
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. If the dilution of the use-level pH-value is considerably increased after use, the aqueous waste, emptied into drains, is only low water-dangerous.

Other adverse effects No relevant information available.

13 Disposal considerations

[•] Waste treatment methods

· Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

[·] Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

Transport information	
· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	UN3264
· UN proper shipping name · DOT	Corrosive liquid, acidic, inorganic, n.o.s. (alumini sulfate)
· ADR/RID/ADN, IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O (ALUMINIUM SULPHATE SOLUTION)
Transport hazard class(es)	
DOT	
Contractive Contractive Contractive	
· Class	8
·Label	8
· ADR/RID/ADN	
March 1	
· Class	8 (C1)
·Label	8
· IMDG, IATA	
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Class	8	
Label	8	
Packing group DOT, ADR/RID/ADN, IMDG, IATA	111	
Environmental hazards	Not applicable.	
Special precautions for user Hazard identification number (Kemler code):	Warning: Corrosive substances 80	
Transport in bulk according to Annex II o	f	
MARPOL73/78 and the IBC Code	Not applicable.	

15 Regulatory information

 Safety, health and environmental regulations/legislation specific for the substance or mixture United States (USA) SARA
· Section 302 (extremely hazardous substances):
None of the ingredients are listed.
· Section 313 (Specific toxic chemical listings):
10043-01-3 Aluminum sulfate
· TSCA (Toxic Substances Control Act)
All ingredients are listed or exempt.
· Proposition 65 (California)
· Chemicals known to cause cancer:
None of the ingredients are listed.
· Chemicals known to cause developmental toxicity for females:
None of the ingredients are listed.
· Chemicals known to cause developmental toxicity for males:
None of the ingredients are listed.
· Chemicals known to cause developmental toxicity:
None of the ingredients are listed.
· EPA (Environmental Protection Agency):
None of the ingredients are listed.
· IARC (International Agency for Research on Cancer):
None of the ingredients are listed.
· Canadian Domestic Substances List (DSL):
All ingredients listed on DSL or NDSL.

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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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

IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Met. Corr.1: Corrosive to metals - Category 1 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtel.com