

Safety Data Sheet

Aluminum Ammonium Sulfate

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Aluminum Ammonium Sulfate

Synonyms/Generic Names: Ammonium alum, Aluminum Ammonium Sulfate Dodecahydrate

SDS Number: 20.00

Product Use: For Educational Use Only

Manufacturer: Columbus Chemical Industries, Inc. N4335 Temkin Rd. Columbus, WI. 53925

For More Information Contact: Ward's Science 5100 West Henrietta Rd. PO Box 92912-9012 Rochester, NY 14692 (800) 962-2660 (Monday-Friday 7:30-7:00 Eastern Time)

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

OSHA Hazards: Irritant

Target Organs: None Known

Signal Words: Warning

Pictograms:



GHS Classification:

Eye irritation	Category 2A
Skin irritation	Category 2

GHS Label Elements, including precautionary statements:

Hazard Statements:

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary Statements:

Frecaulionary State	incitio.	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.	
P264	Wash skin thoroughly after handling.	
P271	Use only outdoors or in a well ventilated area.	
P280	Wear protective gloves/protective clothing/face protection/eye protection.	
P302+P352	IF ON SKIN: Wash off with plenty of soap and water.	
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position	
	comfortable for breathing.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact	
	lenses if present and easy to do so. Continue rinsing.	
P312	Call a POISON CENTER or doctor/physician if you feel unwell.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P362	Take off contaminated clothing and wash before reuse.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
P405	Store locked up.	
P501	Dispose of contents/container to an approved waste disposal plant.	

Potential Health Effects

Eyes	Causes eye irritation.
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Ingestion	May be harmful if swallowed.

NFPA Ratings

Health	2
Flammability	0
Reactivity	0
Specific hazard	Not Available

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0
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3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
Aluminum Ammonium Sulfate	100	7784-26-1	232-055-3	H4AINO8S2*12H2O	453.33 g/mol

4. FIRST-AID MEASURES

Eyes	In case of eye contact, rinse with plenty of water and seek medical attention.
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not
	breathing, give artificial respiration. Get medical attention.
Skin	Immediately flush with plenty of water for at least 15 minutes while removing contaminated
	clothing and wash using soap. Get medical attention.
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If
	conscious, wash out mouth with water. Get medical attention.

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable)	Product is not flammable. Use appropriate media for adjacent fire. Cool
extinguishing media	containers with water.
Special protective equipment	Wear self-contained, approved breathing apparatus and full protective

and precautions for firefighters	clothing, including eye protection and boots.
Specific hazards arising from	Emits toxic fumes under fire conditions. (Nitrogen oxides, Sulfur oxides,
the chemical	Aluminum Oxides) (See also Stability and Reactivity section).

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.
Methods and materials for	Pick up and arrange disposal without creating dust. Sweep up and place
containment and cleaning up	in suitable containers for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts and aerosols.

Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls: Contains no substances with occupational exposure limit values.

Personal Protection

Eyes	Wear chemical safety glasses or goggles.	
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an	
	approved respirator.	
Skin	Wear nitrile or rubber gloves, apron or lab coat.	
Other	Not Available	

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	White solid, powder or crystals	
Odor	Odorless	
Odor threshold	Not Available	
рН	2.6 @ 100 g/l @ 25°C (77°F)	
Melting point/freezing point	94°C (201.2°F)	
Initial boiling point and boiling range	200°C (392°F)	
Flash point	Not Flammable	

Evaporation rate	Not Available
Flammability (solid, gas)	Not Flammable
Upper/lower flammability or explosive limit	Not Flammable
Vapor pressure	Not Available
Vapor density	Not Available
Relative density	Not Available
Solubility (ies)	Partially soluble in hot water.
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Heat above 280°C (536°F)
Incompatible Materials	Alkalis, oxidizing agents, metals
Hazardous Decomposition Products	Nitrogen oxides, Sulfur oxides, Aluminum oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Skin	Not Available
Eyes	Not Available
Respiratory	Not Available
Ingestion	Not Available

Carcinogenicity

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified
	as a carcinogen or potential carcinogen by ACGIH.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified
	as a known or anticipated carcinogen by NTP.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified
	as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

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Skin	Redness, swelling	g, pain, itchiness, rash.
Eyes	Redness, pain, tearing, conjunctivitis.	
Respiratory	Pain, inflammation.	
Ingestion	Central nervous system depression, dizziness, dehydration, slurred speech, blurred vision,	
	sensory loss, tremors, convulsions, ataxia.	
Chronic Toxicit	ty	Not Available
Teratogenicity		Not Available
Mutagenicity		Not Available
Embryotoxicity	,	Not Available
Specific Target	Organ Toxicity	Inhalation – May cause respiratory irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity	
Aquatic Vertebrate	Not Available
Aquatic Invertebrate	Not Available
Terrestrial	Not Available
Persistence and Dear	adability Not Available

Persistence and Degradability	Not Available
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

13. DISPOSAL CONSIDERATIONS

Waste Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste products or residues.
Product Containers	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORTATION INFORMATION

US DOT	Not Dangerous Goods
TDG	Not Dangerous Goods
IMDG	Not Dangerous Goods
Marine Pollutant	No
IATA/ICAO	Not Dangerous Goods

15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA inventory.
DSCL (EEC)	All ingredients are listed on the DSCL inventory.
California Proposition 65	Not Listed
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	Aluminum Ammonium Sulfate
SARA 312	Aluminum Ammonium Sulfate
SARA 313	Listed: Aluminum Ammonium Sulfate
WHMIS Canada	Not Listed

16. OTHER INFORMATION

Revision	Date
Revision 1	01/28/2013

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