

Aluminum Sulfate (Applydraup) Driging -			
Aluminum Sulfate (Anhydrous) Pricing >			
Linear Formula	Al ₂ (SO ₄) ₃		
Pubchem CID	24850		
MDL Number	MFCD00003423		
EC No.	233-135-0		
IUPAC Name	dialuminum trisulfate		
Beilstein/Reaxys No.	N/A		
SMILES	[Al+3].[Al+3].[O-]S(=O)(=O)[O-].[O-]S([O-])(=O)=O.[O-]S([O-])(=O)=O		
Inchl Identifier	InChI=1S/2AI.3H2O4S/c;;3*1-5(2,3)4/h;;3*(H2,1,2,3,4)/q2*+3;;;/p-6		
nchl Key DIZPMCHEQGEION-UHFF		FFAOYSA-H	
Signal Word		Danger	
Hazard Statements		H290-H318	
Hazard Codes		С	
Precautionary Statements		P280-P305 + P351 + P338 + P310	
Flash Point		Not applicable	
Risk Codes		37/38-41-52	
Safety Statements		26-39	
RTECS Number		BD1700000	
Transport Information		UN3260 8/PG III	
WGK Germany		1	
GHS Pictograms		GHS05 Corros	

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SAFETY DATA SHEET

Date Accessed: 04/27/2024 Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #10043-01-3

Relevant identified uses of the substance: Scientific research and development Supplier details: American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551 Fax: +1 310-208-0351

Emergency telephone number: Domestic, North America +1 800-424-9300 International +1 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Corrosive to metals (Category 1), H290 Serious eye damage (Category 1), H318

GHS Label elements, including precautionary statements Hazard pictogram



GHS05 Signal word Danger Hazard statements Hazard statement(s) H290 May be corrosive to metals. H318 Causes serious eye damage. Precautionary statement(s) P234 Keep only in original container. P280 Wear eye protection/ face protection. P305 + P351 + P338 + P310 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. P390 Absorb spillage to prevent material damage. P406 Store in corrosive resistant container with a resistant inner liner.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

CAS No. / Substance Name: 10043-01-3 Aluminum sulfate Identification number(s): EC number: 233-135-0

SECTION 4. FIRST AID MEASURES

Description of first aid measures General advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact 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 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) and/or in section 11 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special hazards arising from the substance or mixture No data available Wear self-contained breathing apparatus for firefighting if necessary. Further information No data available

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and

emergency procedures Wear respiratory protection. 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. 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

Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2. Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and wellventilated place. Hygroscopic: Store under inert gas. Keep in a dry place. Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters Components with workplace control parameters Component: Aluminum Sulfate CAS-No.: 10043-01-3 Value: TWA Control parameters: 2.000000 mg/m3 Basis: USA. NIOSH Recommended Exposure Limits Value: TWA Control parameters: 2 mg/m3 Basis: USA. NIOSH Recommended Exposure Limits Value: PEL Control parameters: 2.000000 mg/m3 Basis: California permissible exposure limits for chemical contaminants (Title 8, Article 107) 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. Body Protection

Complete suit protecting against chemicals, 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 physical and chemical properties Appearance: Form: White Powder Odor: No data available Odor threshold: No data available. pH (50 g/l) at 20 °C (68 °F): 3.5 Melting point/Melting range: 770 °C (1418 °F) Boiling point/Boiling range: No data available Sublimation temperature / start: No data available Flammability (solid, gas): No data available. Ignition temperature: No data available Decomposition temperature: No data available Autoignition: No data available. Danger of explosion: No data available. Explosion limits: Lower: No data available Upper: No data available Vapor pressure: N/A

Density at 20 °C (68 °F): 2.71 g/cm³ Relative density: No data available. Vapor density: N/A Evaporation rate: N/A Solubility in Water (H₂O): 1.0 g/l at (20 °C) completely miscible Partition coefficient (n-octanol/water): No data available. Viscosity: Dynamic: N/A Kinematic: N/A Other information: Surface tension 73 mN/m at 20 °C (68 °F)

SECTION 10. STABILITY AND REACTIVITY

Reactivity No data available Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions No data available Conditions to avoid Air Exposure to moisture Incompatible materials Incompatible with strong bases and oxidizing agents., Ammonia, Water, Amines Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Sulphur oxides, Aluminum oxide Other decomposition products - No data available In the event of fire: see section 5

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity LD50 Oral - Rat - male and female - > 5,000 mg/kg (OECD Test Guideline 401) Inhalation: No data available Dermal: No data available No data available Skin corrosion/irritation Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404) Serious eye damage/eye irritation Eyes - Rabbit Result: Irritating to eyes. (OECD Test Guideline 405) Respiratory or skin sensitisation No data available Germ cell mutagenicity Ames test S. typhimurium Result: negative Rat Cytogenetic analysis 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. 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. Reproductive toxicity No data available Reproductive toxicity - Rat - Intratesticular Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count). Paternal Effects: Testes, epididymis, sperm duct. Reproductive toxicity - Mouse - Intraperitoneal Effects on Newborn: Growth statistics (e.g., reduced weight gain). Effects on Newborn: Behavioral. 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 Additional Information RTECS: BD1700000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to daphnia and other aquatic invertebrates LC50 - Daphnia magna (Water flea) - 38.2 mg/l - 48 h Persistence and degradability No data available 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 Other adverse effects No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Contaminated packaging Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

DOT (US)

UN number: 3260 Class: 8 Packing group: III Proper shipping name: Corrosive solid, acidic, inorganic, n.o.s. (Aluminum sulphate) Reportable Quantity (RQ): 5000 lbs Poison Inhalation Hazard: No IMDG UN number: 3260 Class: 8 Packing group: III EMS-No: F-A, S-B Proper shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Aluminum sulphate) IATA UN number: 3260 Class: 8 Packing group: III Proper shipping name: Corrosive solid, acidic, inorganic, n.o.s. (Aluminum sulphate)

SECTION 15. REGULATORY INFORMATION

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard Massachusetts Right To Know Components Aluminum sulphate CAS-No. 10043-01-3 Revision Date 1993-04-24 Pennsylvania Right To Know Components Aluminum sulphate CAS-No. 10043-01-3 **Revision Date** 1993-04-24 New Jersey Right To Know Components Aluminum sulphate CAS-No. 10043-01-3 **Revision Date** 1993-04-24 California Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.