

# SAFETY DATA SHEET

Date Printed: 05/02/2024 Date Revised: 01/15/2022

## **SECTION 1. IDENTIFICATION**

Product Identifier: (5N) 99.999% Aluminum Ammonium Sulfate Dodecahydrate

Product Code: AL-AMSAT-05-C.12HYD

CAS Number: 7784-26-1

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: +1 800-424-9300

# **SECTION 2. HAZARDS IDENTIFICATION**

Classification This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Skin Corrosion/Irritation Category 2 Serious Eye Damage/Eye Irritation Category 2 Specific target organ toxicity (single exposure) Category 3 Target Organs - Respiratory system Signal Word: Warning Hazard Statements: Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Precautionary Statements: Prevention Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Skin IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse Eves IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention Storage Store in a well-ventilated place. Keep container tightly closed Store locked up Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) None identifie

# **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component / CAS-No / Weight %: Aluminum ammonium sulfate dodecahydrate / 7784-26-1 / >95 Ammonium alum / 7784-25-0 / 0

#### **SECTION 4. FIRST AID MEASURES**

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention. Inhalation Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention.

Ingestion Do NOT induce vomiting. Get medical attention.

Most important symptoms and effects

Irritating to eyes. Irritating to skin. Irritating to respiratory system.

Notes to Physician Treat symptomatically

# **SECTION 5. FIREFIGHTING MEASURES**

Suitable Extinguishing Media Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.Unsuitable Extinguishing Media No information available Flash Point No information available Method - No information available Autoignition Temperature No information available Explosion Limits Upper No data available Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available Specific Hazards Arising from the Chemical Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Keep product and empty container away from heat and sources of ignition. Hazardous Combustion Products Nitrogen oxides (NOx). Sulfur oxides. Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear NFPA Health - 2 Flammability - 0 Instability - 0 Physical hazards - N/A

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal Precautions

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak. Environmental Precautions

Avoid release to the environment.

Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

# SECTION 7. HANDLING AND STORAGE

Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation. Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Measures** 

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure. Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State Solid Appearance White** Odor Odorless Odor Threshold No information available pH 4.6 0.05M ag.sol Melting Point/Range 93.5 °C / 200.3 °F Boiling Point/Range 200 °C / 392 °F Flash Point No information available **Evaporation Rate Not applicable** Flammability (solid,gas) No information available Flammability or explosive limits Upper No data available Lower No data available Vapor Pressure No information available Vapor Density Not applicable Specific Gravity 1.640 Solubility 150 g/L (20°C) Partition coefficient; n-octanol/water No data available Autoignition Temperature No information available Decomposition Temperature > 280°C Viscosity Not applicable Molecular Formula H<sub>4</sub>AINO<sub>8</sub>S<sub>2</sub> • 12H<sub>2</sub>O Molecular Weight 453.33

# SECTION 10. STABILITY AND REACTIVITY

Reactive Hazard None known, based on information available Stability Stable under normal conditions. Conditions to Avoid Incompatible products. Excess heat. Avoid dust formation. Incompatible Materials Strong oxidizing agents Hazardous Decomposition Products Nitrogen oxides (NOx), Sulfur oxides Hazardous Polymerization Hazardous polymerization does not occur. Hazardous Reactions None under normal processing

#### SECTION 11. TOXICOLOGICAL INFORMATION

Toxicologically Synergistic Products No information available Delayed and immediate effects as well as chronic effects from short and long-term exposure Irritation Irritating to eyes, respiratory system and skin Sensitization No information available Mutagenic Effects No information available Reproductive Effects No information available. Developmental Effects No information available. Teratogenicity No information available. STOT - single exposure Respiratory system STOT - repeated exposure None known Aspiration hazard No information available Symptoms / effects,both acute and delayed No information available Endocrine Disruptor Information No information available Other Adverse Effects The toxicological properties have not been fully investigated.

## **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity Do not empty into drains. Persistence and Degradability Soluble in water Persistence is unlikely based on information available. Bioaccumulation/ Accumulation No information available. Mobility Will likely be mobile in the environment due to its water solubility.

# **SECTION 13. DISPOSAL CONSIDERATIONS**

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 Not regulated TDG Not regulated IATA Not regulated IMDG/IMO Not regulated

# **SECTION 15. REGULATORY INFORMATION**

SARA 311/312 Hazard Categories See section 2 for more information CWA (Clean Water Act) Not applicable OSHA - Occupational Safety and Health Administration Not applicable CERCLA Not applicable California Proposition 65 This product does not contain any Proposition 65 chemicals. U.S. Department of Transportation Reportable Quantity (RQ): N DOT Marine Pollutant N DOT Severe Marine Pollutant N U.S. Department of Homeland Security This product does not contain any DHS chemicals. Other International Regulations Mexico - Grade No information available

## **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.