

# SAFETY DATA SHEET

Date Printed: 09/20/2024 Date Revised: 01/15/2022

#### **SECTION 1. IDENTIFICATION**

Product Identifier: (3N5) 99.95% Aluminum Trifluoromethanesulfonate

Product Code: AL-CFS-035

CAS Number: 74974-61-1

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 1 B Serious Eye Damage/Eye Irritation Category 1 Combustible dust Yes Signal Word Danger Hazard Statements May form combustible dust concentrations in air Causes severe skin burns and eye damage **Precautionary Statements** Prevention Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Response Immediately call a POISON CENTER or doctor/physician Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion IF SWALLOWED: Rinse mouth. DO NOT induce vomiting Storage Store locked up Store in a well-ventilated place. Keep container tightly closed Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) None identified



Component CAS-No Weight % Aluminium trifluoromethanesulfonate 74974-61-1 99

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

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

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately. Most important symptoms and effects

Causes burns by all exposure routes. Difficulty in breathing. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of overexposure may be headache,

dizziness, tiredness, nausea and vomiting

Notes to Physician Treat symptomatically

# **SECTION 4. FIRST AID MEASURES**

Suitable Extinguishing Media Carbon dioxide (CO 2). Dry chemical. Chemical foam. Unsuitable Extinguishing Media No information available Flash Point No information available Method - No information available Autoignition Temperature Not applicable 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 Fine dust dispersed in air may ignite. Hazardous Combustion Products Carbon monoxide (CO). Carbon dioxide (CO2). Sulfur oxides. Burning produces obnoxious and toxic fumes. Gaseous hydrogen fluoride (HF). 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 3 Flammability 1 Instability 1 Physical hazards N/A

#### **SECTION 5. FIREFIGHTING MEASURES**

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid dust formation. Remove all sources of ignition. Environmental Precautions Should not be released into the environment. Methods for Containment and Clean Up Sweep up and shovel into suitable containers for disposal. Do not let this chemical enter the environment. Avoid dust formation

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Handling Use only under a chemical fume hood. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate medical assistance. Minimize dust generation and accumulation. Wash hands before breaks and immediately after handling the product.

Storage Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed.

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

# SECTION 7. HANDLING AND STORAGE

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

**Engineering Measures** 

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation locationPersonal 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 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Physical State Powder Solid Appearance White Odor No information available Odor Threshold No information available pH No information available Melting Point/Range 300 °C / 572 °F Boiling Point/Range No information available 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 No information available Solubility No information available Partition coefficient: n-octanol/water No data available Autoignition Temperature Not applicable Decomposition Temperature No information available Viscosity Not applicable Molecular Formula C3 AI F9 O9 S3 Molecular Weight 474.19

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

Reactive Hazard None known, based on information available Stability Stable under normal conditions. Hygroscopic. Conditions to Avoid Incompatible products. Exposure to moist air or water. Avoid dust formation. Incompatible Materials Strong oxidizing agents Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Sulfur oxides, Burning produces obnoxious and toxic fumes, Gaseous hydrogen fluoride (HF) Hazardous Polymerization Hazardous polymerization does not occur. Hazardous Reactions None under normal processing.

# SECTION 10. STABILITY AND REACTIVITY

Acute Toxicity Product Information No acute toxicity information is available for this product Component Information Toxicologically Synergistic Products No information available Delayed and immediate effects as well as chronic effects from short and long-term exposure Irritation Causes burns by all exposure routes Sensitization No information available Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. Component CAS-No IARC NTP ACGIH OSHA Mexico Aluminium trifluoromethanesulfonate 74974-61-1 Not listed Not listed Not listed Not listed Not listed Mutagenic Effects No information available Reproductive Effects No information available. Developmental Effects No information available. Teratogenicity No information available. STOT - single exposure None known STOT - repeated exposure None known Aspiration hazard No information available Symptoms / effects,both acute and delaved Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

#### SECTION 11. TOXICOLOGICAL INFORMATION

Ecotoxicity

Do not empty into drains.

Persistence and Degradability Insoluble in water

Bioaccumulation/ Accumulation No information available.

Mobility Is not likely mobile in the environment due its low water solubility

#### **SECTION 12. ECOLOGICAL INFORMATION**

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 13. DISPOSAL CONSIDERATIONS**

DOT UN-No UN3261 Proper Shipping Name Corrosive solid, acidic, organic, n.o.s. Hazard Class 8 Packing Group III TDG UN-No UN3261 Proper Shipping Name Corrosive solid, acidic, organic, n.o.s. Hazard Class 8 Packing Group III IATA UN-No UN3261 Proper Shipping Name CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.\* Hazard Class 8 Packing Group III IMDG/IMO UN-No UN3261 Proper Shipping Name Corrosive solid, acidic, organic, n.o.s. Hazard Class 8 Packing Group III

#### **SECTION 14. TRANSPORT INFORMATION**

United States of America Inventory Component CAS-No TSCA TSCA Inventory notification -Active/Inactive **TSCA - EPA Regulatory** Flags Aluminium trifluoromethanesulfonate 74974-61-1 - - -Legend: TSCA - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed TSCA 12(b) - Notices of Export Not applicable International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL). Component CAS-No DSL NDSL EINECS PICCS ENCS AICS IECSC KECL Aluminium trifluoromethanesulfonate **U.S.** Federal Regulations SARA 313 Not applicable SARA 311/312 Hazard Categories See section 2 for more information CWA (Clean Water Act) Not applicable Clean Air 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. State Right-to-Know Regulations Not applicable U.S. Department of Transportation Reportable Quantity (RQ): N **DOT Marine Pollutant N DOT Severe Marine Pollutant N** U.S. Department of Homeland Security

# **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.