

# SAFETY DATA SHEET

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

Product Identifier: (3N) 99.9% Aluminum Lithium Alloy Powder

Product Code: AL-LI-03-P

CAS Number: 87871-87-2

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 of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Substances and mixtures, which in contact with water, emit flammable gases(Category 1), H260 Skin corrosion (Category 1B), H314 Serious eye damage (Category 1), H318 For the full text of the H - Statements mentioned in this Section, see Section 16. GHS Label elements, including precautionary statements Pictogram

Signal word: Danger Hazard statement(s) H260 In contact with water releases flammable gases which may ignite spontaneously. H314 Causes severe skin burns and eye damage. Precautionary statement(s) P223

Keep away from any possible contact with water, because of violent reaction and possible flash fire.

P231 + P232 Handle under inert gas. Protect from moisture. P260 Do not breathe dust or mist. P264 Wash skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 + P330 + P331IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinsecautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/ physician. P321 Specific treatment (see supplemental first aid instructions on this label). P335 + P334Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages. P363 Wash contaminated clothing before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. P402 + P404 Store in a dry place. Store in a closed container. P405 Store locked up. P501 Dispose of contents/ container to an approved waste disposal plant. Hazards not otherwise classified (HNOC) or not covered by GHS Reacts violently with water.

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

Substances CAS-No.: 87871-87-2 No ingredients are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations.

# **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

Take off contaminated clothing and shoes immediately. 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.

Continue rinsing eyes during transport to hospital.

If swallowed

Do NOT induce vomiting. 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 2.2) 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 Dry powder Special hazards arising from the substance or mixture Nature of decomposition products not known. Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary. Further information no data available

# SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use personal protective equipment. 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 Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Methods and materials for containment and cleaning up Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. 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.

Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of

ignition - No smoking. For precautions see section 2.2. Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. 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 Contains no substances with occupational exposure limit values. 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, Flame retardant protective clothing, 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 Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties Appearance Form: powder Odor no data available Odor Threshold no data available pH no data available Melting point/freezing point Melting point/range: 718 °C (1,324 °F)-lit. Initial boiling point and boiling range no data available Flash point no data available Evaporation rate no data available Flammability (solid, gas) no data available Upper/lower flammability or explosive limits no data available Vapor pressure no data available Vapor density no data available Relative density 1.56 g/cm3 at 25 °C (77 °F) Water solubility no data available Partition coefficient: n-octanol/water no data available Auto-ignition temperature no data available Decomposition temperature no data available Viscosity no data available Explosive properties no data available Oxidizing properties no data available Other safety information no data available

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity no data available Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions Reacts violently with water. Conditions to avoid Exposure to moisture. Incompatible materials acids, Water, Nitrogen, Acid chlorides, Chlorinated solvents, Halogens, Oxidizing agents, Forms shock-sensitive mixtures with certain other materials., Iron and iron salts., Heavy metals, Phosphorus, Sulphur compounds, Oxygen Hazardous decomposition products Other decomposition products-no data available In the event of fire: see section 5

## SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity no data available Inhalation: no data available Dermal: no data available no data available Skin corrosion/irritation: no data available Serious eye damage/eye irritation: no data available Respiratory or skin sensitisation: no data available Germ cell mutagenicity: no data 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: 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. Reproductive toxicity no data available 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: Not available Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin-spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea

## **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity no data available 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 Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. 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: 3131 Class: 4.3(8) Packing group: I Proper shipping name: Water-reactive solid, corrosive, n.o.s. (Lithium-aluminum alloy) Marine pollutant: No Poison Inhalation Hazard: No IMDG UN number: 3131 Class: 4.3(8) Packing group: I EMS-No: F-G, S-L Proper shipping name: WATER REACTIVE SOLID, CORROSIVE, N.O.S. (Lithium-aluminum alloy) Marine pollutant: No ΙΑΤΑ UN number: 3131 Class: 4.3(8) Packing group: I Proper shipping name: Water-reactive solid, corrosive, n.o.s. (Lithium-aluminum alloy)

IATA Passenger: Not permitted for transport

## **SECTION 15. REGULATORY INFORMATION**

SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components

SARA 313: 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 **Reactivity Hazard** Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act. Pennsylvania Right To Know Components Lithium-aluminum alloy CAS-No. 87871-87-2 **Revision Date** New Jersey Right To Know Components Lithium-aluminum alloy CAS-No. 87871-87-2 **Revision Date** 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.