

# SAFETY DATA SHEET

Date Printed: 05/12/2024

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## SECTION 1. IDENTIFICATION

**Product Identifier:** (4N) 99.99% Aluminum Acetate

**Product Code:** AL-AC-04-P.DBASC

**CAS Number:** 7360-44-3

**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:  
+1 800-424-9300

## SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture  
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)  
Reproductive toxicity  
(Category 2), H361

GHS Label elements, including precautionary statements  
Pictogram



Signal word  
Warning  
Hazard statement(s)  
H361  
Suspected of damaging fertility or the unborn child.  
Precautionary statement(s)  
P201  
Obtain special instructions before use.  
P202  
Do not handle until all safety precautions have been read and understood.

P281

Use personal protective equipment as required.

P308 + P313

IF exposed or concerned: Get medical advice/ attention.

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 - none

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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Synonyms: Dihydroxyaluminum acetate

Formula:  $\text{C}_2\text{H}_5\text{AlO}_4$

Molecular weight: 120.04 g/mol

CAS-No.: 7360-44-3

EC-No.: 233-139-2

Index-No.: 005-007-00-2

Hazardous components

Component

Classification

Concentration

Boric acid

Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

Repr. 2; H361

$\geq 10$ - $< 20\%$

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## 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

Flush eyes with water as a precaution.

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

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## 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

Carbon oxides, Borane/boron oxides, Aluminum oxide

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

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## 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

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.

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## 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 well-ventilated place.

Keep in a dry place.

Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters

Component

CAS-No.

Value

Control parameters

Basis

Boric acid

10043-35-3

TWA

2.000000

mg/m<sup>3</sup>

USA. ACGIH Threshold Limit Values  
(TLV)

Remarks

Upper Respiratory Tract irritation

Not classifiable as a human carcinogen  
varies

STEL

6.000000

mg/m<sup>3</sup>

USA. ACGIH Threshold Limit Values  
(TLV)

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varies

TWA

2.000000

mg/m<sup>3</sup>

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Not classifiable as a human carcinogen  
varies

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6.000000

mg/m<sup>3</sup>

USA. ACGIH Threshold Limit Values  
(TLV)

Upper Respiratory Tract irritation

Not classifiable as a human carcinogen  
varies

STEL

6.000000

mg/m<sup>3</sup>

USA. ACGIH Threshold Limit Values  
(TLV)

Upper Respiratory Tract irritation

Not classifiable as a human carcinogen  
varies

TWA

2 mg/m<sup>3</sup>

USA. ACGIH Threshold Limit Values (TLV)

Upper Respiratory Tract irritation

Not classifiable as a human carcinogen  
varies

STEL

6 mg/m<sup>3</sup>

USA. ACGIH Threshold Limit Values (TLV)

Upper Respiratory Tract irritation

Not classifiable as a human carcinogen  
varies

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

Safety glasses with side-shields conforming to EN166 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

Impervious 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.

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## 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: No data available

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

Vapor pressure: No data available

Vapor density: No data available  
Relative density: No data available  
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

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## SECTION 10. STABILITY AND REACTIVITY

Reactivity  
No data available  
Chemical stability  
Stable under recommended storage conditions.  
Contains the following stabiliser(s):  
Boric acid ( $\geq 12.5$ - $\leq 13\%$ )  
Possibility of hazardous reactions  
No data available  
Conditions to avoid  
No data available  
Incompatible materials  
No data available  
Hazardous decomposition products  
Other decomposition products - No data available  
In the event of fire: see section 5

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## SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects  
Acute toxicity  
No data available (Aluminum, (acetato-.kappa.O)dihydroxy-)  
Inhalation: No data available (Aluminum, (acetato-.kappa.O)dihydroxy-)  
Dermal: No data available (Aluminum, (acetato-.kappa.O)dihydroxy-)  
No data available (Aluminum, (acetato-.kappa.O)dihydroxy-)  
Skin corrosion/irritation  
No data available (Aluminum, (acetato-.kappa.O)dihydroxy-)  
Serious eye damage/eye irritation  
No data available (Aluminum, (acetato-.kappa.O)dihydroxy-)  
Respiratory or skin sensitisation  
No data available (Aluminum, (acetato-.kappa.O)dihydroxy-)  
Germ cell mutagenicity  
No data available (Aluminum, (acetato-.kappa.O)dihydroxy-)  
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 (Aluminum, (acetato-.kappa.O)dihydroxy-)

No data available (Aluminum, (acetato-.kappa.O)dihydroxy-)

Specific target organ toxicity -single exposure

No data available (Aluminum, (acetato-.kappa.O)dihydroxy-)

Specific target organ toxicity -repeated exposure

No data available

Aspiration hazard

No data available (Aluminum, (acetato-.kappa.O)dihydroxy-)

Additional Information

RTECS: Not available

Toxicity reported for borates in humans: ingestion or absorption may cause nausea, vomiting, diarrhea, abdominal cramps, and erythematous lesions on the skin and mucous membranes. Other symptoms include: circulatory collapse, tachycardia, cyanosis, delirium, convulsions, and coma. Death has been reported to occur in infants from less than 5 grams and in adults from 5 to 20 grams.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (Aluminum, (acetato-.kappa.O)dihydroxy-)

Liver - Irregularities - Based on Human Evidence

Liver - Irregularities - Based on Human Evidence (Boric acid)

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## 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 (Aluminum, (acetato-.kappa.O)dihydroxy-)

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

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## 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.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

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## SECTION 14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods  
IMDG  
Not dangerous goods  
IATA  
Not dangerous goods

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## 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

#### Chronic Health Hazard

#### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know Components

Aluminum, (acetato-.kappa.O)dihydroxy-

CAS-No.

7360-44-3

Revision Date

Boric acid

10043-35-3

2009-07-17

#### New Jersey Right To Know Components

Aluminum, (acetato-.kappa.O)dihydroxy-

CAS-No.

7360-44-3

Revision Date

Boric acid

10043-35-3

2009-07-17

#### 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.

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## 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.