SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

Product Name: Aluminum Acetate (Dibasic)

Product Number: All applicable American Elements product codes, e.g. AL-AC-02-P.DBASC , AL-AC-025-P.DBASC , AL-AC-03-P.DBASC , AL-AC-035-P.DBASC , AL-AC-04-P.DBASC , AL-AC-05-P.DBASC

CAS #: 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: $C_2H_5AlO_4$
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
>=10-<20%

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

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

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.

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

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/m3
USA. ACGIH Threshold Limit Values (TLV)
Remarks
Upper Respiratory Tract irritation
Not classifiable as a human carcinogen
varies
STEL
6.000000
mg/m3
USA. ACGIH Threshold Limit Values (TLV)
Upper Respiratory Tract irritation
Not classifiable as a human carcinogen
varies
TWA
2.000000
mg/m3
USA. ACGIH Threshold Limit Values (TLV)
Upper Respiratory Tract irritation
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TWA
2.000000
mg/m3
USA. ACGIH Threshold Limit Values (TLV)
Upper Respiratory Tract irritation
Not classifiable as a human carcinogen
varies
STEL
6.000000
mg/m3
USA. ACGIH Threshold Limit Values (TLV)
Upper Respiratory Tract irritation
Not classifiable as a human carcinogen
varies
STEL
6.000000
mg/m3
USA. ACGIH Threshold Limit Values (TLV)
Upper Respiratory Tract irritation
Not classifiable as a human carcinogen
varies
TWA

2 mg/m3
USA. ACGIH Threshold Limit Values
(TLV)
Upper Respiratory Tract irritation
Not classifiable as a human carcinogen
varies
STEL
6 mg/m3
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.

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

SECTION 10. STABILITY AND REACTIVITY

Reactivity
No data available
Chemical stability
Stable under recommended storage conditions.
Contains the following stabiliser(s):
Boric acid (>=12.5-<=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

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, anderythematous 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)

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

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.

SECTION 14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

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.

SECTION 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.