

[Aluminum Oleate](#)

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Linear Formula	C <sub>32</sub> H <sub>60</sub> AlO <sub>6</sub>
Pubchem CID	6433210
MDL Number	MFC00067232
EC No.	211-702-3
IUPAC Name	aluminum; (Z)-octadec-9-enoate
SMILES	CCCCCCCC=CCCCCCCCC(=O)[O-].CCCCCCCC=CCCCCCCCC(=O)[O-].CCCCCCCC=CCCCCCCCC(=O)[O-].[Al+3]
InChI Identifier	InChI=1S/3C18H34O2.Al/c3*1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18(19)20;/h3*9-10H,2-8,11-17H2,1H3,(H,19,20)/q;;+3/p-3/b3*10-9-
InChI Key	IKCOOALACZVGLI-GNOQXXQHSA-K

Signal Word	N/A
Hazard Statements	N/A
Hazard Codes	N/A
Risk Codes	N/A
Safety Statements	N/A
Transport Information	N/A

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## SAFETY DATA SHEET

Date Accessed: 05/18/2024

Date Revised: 01/15/2022

### SECTION 1. IDENTIFICATION

**Product Identifiers:** All applicable American Elements product codes for CAS #688-37-9

**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:  
Domestic, North America +1 800-424-9300  
International +1 703-527-3887

### SECTION 2. HAZARDS IDENTIFICATION

Statements of Hazard:

Irritant

Acute Health Hazard:

Irritant to eyes, skin, mucous membranes and respiratory system. May be harmful by ingestion, inhalation or skin absorption.

Chronic Health Hazard:

Not Available

HMIS Rating:

H:0 F:1 P:0

NFPA Rating:

H:0 F:1 R:0

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

Pictogram:



Signal Word:

Warning

Hazard Statement(s):

H302

Harmful if swallowed.

H312

Harmful in contact with skin.

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H332

Harmful if inhaled.

H335

May cause respiratory irritation.

Precautionary Statement(s):

P261

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312

IF SWALLOWED: Call a POISON

CENTER or doctor/physician if you feel unwell.

P302+P352

IF ON SKIN: Wash with plenty of soap and water.

P304+P340

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313

If skin irritation occurs: Get medical advice/ attention.

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

Chemical Name:

Aluminum oleate

Synonyms:

Not Available

CAS Number:

688-37-9

EINECS Number:

211-702-3

Molecular Weight:

871

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

Eye Contact:

Flush eyes with large amounts of water for fifteen minutes. Separate eyelids with fingers. If irritation persists, seek medical attention.

Skin Contact:

Wash skin with soap and water. If irritation persists, seek medical attention.

Ingestion:

Do not induce vomiting. Seek medical attention.

Inhalation:

Move to a fresh air environment. Contact a physician if breathing becomes difficult.

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

Flash Point:

518 °C

Explosion Limits:

Lower: Not Available

Upper: Not Available

Autoignition:

Not Available

Extinguishing Media:

Carbon dioxide, dry chemical powder, alcohol-resistant foam or water spray.

Protective Equipment:

Wear self-contained respirator and fully protective impervious suit.

Specific Hazards:

May emit hazardous fumes under fire conditions.

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

### **Personal Protection:**

Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use.

Keep unprotected persons away.

### **Environmental Protection:**

Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

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## **SECTION 7. HANDLING AND STORAGE**

### **Handling:**

Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away.

### **Storage:**

Store in a tightly closed container in a dry, well-ventilated place.

### **Sensitivities:**

Not Available

### **Storage Temperature:**

15 – 30 °C

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## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Eyes:**

Wear appropriate protective eyeglass or chemical safety goggles. Make sure that there is an eyewash facility in your vicinity.

### **Skin:**

Wear impervious gloves and protective clothing.

### **Respiratory:**

Use a NIOSH approved respirator when exposure limits are exceeded or if irritation or other symptoms are experienced.

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

## PROPERTIES

Appearance:  
Light silver/white solid  
Odor:  
Not Available  
Melting Point:  
660 °C  
Boiling Point: 2467 °C  
pH Value:  
Not Available  
Density:  
2.702 g/cm<sup>3</sup>  
Refractive Index, n<sub>20D</sub>:  
Not Available  
Viscosity:  
Not Available  
Solubility in Water:  
Not Available  
Vapor Pressure:  
Not Available  
Vapor Density(Air=1):  
Not Available

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## SECTION 10. STABILITY AND REACTIVITY

Stability:  
Stable under normal temperatures and pressures.  
Incompatibility:  
Strong oxidizing agents.  
Conditions to Avoid:  
Heat, Flame, Sparks, other ignition sources  
Hazardous Decomposition Products:  
Carbon oxides, Aluminum oxides.

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## SECTION 11. TOXICOLOGICAL INFORMATION

RTECS Reference:  
Not Available  
Target Organs:  
Not Available  
Toxicity Data:  
Not Available  
Skin corrosion/irritation:  
Not Available  
Serious eye damage/irritation:  
Not Available  
Carcinogenicity:  
Not Available

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## **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity:

Not Available

Persistence and degradability:

Not Available

Bioaccumulative potential:

Not Available

Mobility in soil:

Not Available

PBT and vPvB assessment:

Not Available

Other adverse effects:

Not Available

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

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## **SECTION 14. TRANSPORT INFORMATION**

DOT: Not Regulated

IATA: Not Regulated

IMDG: Not Regulated

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## **SECTION 15. REGULATORY INFORMATION**

United States:

Toxic Substance Control Act (TSCA): Not listed

Superfund Amendments and Reauthorization Act  
(SARA 302): Not listed

Superfund Amendments and Reauthorization Act  
(SARA 311/312): Not listed

Superfund Amendments and Reauthorization Act  
(SARA 313): Not listed

European Union:

European Inventory of Existing Chemical Substances  
(EINECS): No.211-702-3

Hazard Codes:

Not Available

Risk Statements: Not Available

Safety Statements: Not Available

Canada

Canadian Domestic Substances List (DSL): Not listed

Canadian Domestic Substances List (NDSL): Not listed

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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.

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