

# Material Safety Data Sheet of Aleuritic Acid

## Aleuritic Acid- Technical Grade

### Section 1

Chemical Product

**Trade Name:** Aleuritic Acid, Shellac Powder

**Synonyms:** DL-Erythro-9,10,16-Trihydroxyhexadecanoic Acid.

### Section 2

Composition, Information on Ingredients

**CAS#:** 533-87-9

**Chemical Name:** Hexadecanoic Acid, 9,10,16-Trihydroxy-, (r\*,s\*)-(.-.-)-

### Section 3

Hazards Identification

**Potential Health Effects -**

- **Eye:** May cause eye irritation.
- **Skin:** May cause skin irritation.
- **Ingestion:** May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.
- **Inhalation:** May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.
- **Chronic:** No information found.

### Section 4

**First Aid Measures-**

- **Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention.
- **Skin:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention.
- **Ingestion:** Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.
- **Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
- **Notes to Physician:** Treat symptomatically and supportively.

### Section 5

**Fire Fighting Measures-**

- **General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
- **Extinguishing Media:** Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.
- **Flash Point:** Not applicable. Auto ignition Temperature: Not applicable, Explosion Limits, Lower: Not available.
- **Upper:** Not available.
- **NFPA Rating:** (estimated) Health: 1; Flammability: 0; Instability: 0

## Section 6

### Accidental Release Measures-

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

## Section 7

- **Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.
- **Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

## Section 8

- **Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

ACGIH, NIOSH, OSHA - Final PELs- None listed

OSHA Vacated PELs: Hexadecanoic Acid, 9,10,16-Trihydroxy-, (r\*,s\*)-(.-.-): No OSHA Vacated PELs are listed for this chemical.

### Personal Protective Equipment-

- **Eyes:** 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:** Wear appropriate protective gloves to prevent skin exposure.
- **Clothing:** Wear appropriate protective clothing to prevent skin exposure.
- **Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use

## Section 9

### Physical and Chemical Properties-

- |   |  |  |
|---|--|--|
| • <b>Physical State:</b> Solid          | • <b>Vapor Density:</b> Not available.               | • <b>Solubility:</b> Not available.                |
| • <b>Appearance:</b> beige              | • <b>Evaporation Rate:</b> Not available.            | • <b>Specific Gravity/Density:</b> Not available.  |
| • <b>Odor:</b> none reported            | • <b>Viscosity:</b> Not available.                   | • <b>Molecular Formula:</b> C16H32O5               |
| • <b>pH:</b> Not available.             | • <b>Boiling Point:</b> Not available.               | • <b>Molecular Weight:</b> 304.41                  |
| • <b>Vapor Pressure:</b> Not available. | • <b>Freezing/Melting Point:</b> 88.00 - 96.00 deg C | • <b>Decomposition Temperature:</b> Not available. |

## Section 10

### Stability and Reactivity

- **Chemical Stability:** Stable under normal temperatures and pressures.
- **Conditions to Avoid:** Incompatible materials, dust generation, excess heat, strong oxidants.
- **Incompatibilities with Other Materials:** Oxidizing agents.
- **Hazardous Decomposition Products:** Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.
- **Hazardous Polymerization:** Has not been reported

## Section 11

### Toxicological Information-

RTECS#:

CAS# 533-87-9: ML9850000

LD50/LC50: Not available.

### Carcinogenicity-

- **CAS# 533-87-9:** Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
- **Epidemiology:** No information available.
- **Teratogenicity:** No information available.
- **Reproductive Effects:** No information available.
- **Neurotoxicity:** No information available.
- **Mutagenicity:** No information available.
- **Other Studies:** See actual entry in RTECS for complete information.

### Section 12

#### Ecological Information-

No information available.

### Section 13

#### Disposal Considerations-

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

- **RCRA P-Series:** None listed.
- **RCRA U-Series:** None listed.

### Section 14

#### Transport Information-

	US DOT	TATA	RID/ADR	IMO	Canada TDG
Shipping Name	No information available				No information available
Hazard Class					
UN Number					
Packing Group					

### Section 15

#### Regulatory Information-

US FEDERAL

TSCA

CAS# 533-87-9 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

Section 313

No chemicals are reportable under Section 313.

**Clean Air Act:**

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

**Clean Water Act-**

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 533-87-9 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

**European/International Regulations-**

European Labeling in Accordance with EC Directives

Hazard Symbols:

Not available.

Risk Phrases:

**Safety Phrases:**

S 24/25 Avoid contact with skin and eyes.

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 28A After contact with skin, wash immediately with plenty of water.

WGK (Water Danger/Protection)

**CAS# 533-87-9:** No information available.

Canada - DSL/NDL

CAS# 533-87-9 is listed on Canada's DSL List.

Canada - WHMIS

**WHMIS:** Not available.

Canadian Ingredient Disclosure List

Exposure Limits

**Section 16**

**Other Information-**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event we shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damage.

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