## Safety Data Sheet

### Section 1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Azelaic Acid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product ID</td>
<td>A9817</td>
</tr>
<tr>
<td>Chemical Name (Synonyms)</td>
<td>1,7-heptanedicarboxylic acid, Anchoic acid, Azelex</td>
</tr>
<tr>
<td>Supplier</td>
<td>LKT Laboratories, Inc</td>
</tr>
<tr>
<td></td>
<td>545 Phalen Blvd.</td>
</tr>
<tr>
<td></td>
<td>St. Paul, MN 55130 USA</td>
</tr>
<tr>
<td></td>
<td>Ph: 651-644-8424 Fax: 651-644-8357</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.lktlabs.com">www.lktlabs.com</a> - <a href="mailto:getinfo@lktlabs.com">getinfo@lktlabs.com</a></td>
</tr>
<tr>
<td>Emergency Phone #</td>
<td>1-800-424-9300</td>
</tr>
</tbody>
</table>

### Section 2. Hazards Identification

| GHS Classification | Eye irritation (Category 2A) H319 |

#### GHS Label elements including precautionary statements

**Pictogram**

![Warning symbol]

**Signal word**

Warning

**Hazard and precautionary statements**

**Hazard statement**

H319 - Causes serious eye irritation.

**Precautionary statements**

P264 - Wash skin thoroughly after handling.

P280 - Wear eye protection/ face protection.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - IF eye irritation persists: Get medical advice/ attention.

### HMIS Classification

<table>
<thead>
<tr>
<th>Health hazard:</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic health hazard:</td>
<td>*</td>
</tr>
<tr>
<td>Flammability:</td>
<td>1</td>
</tr>
<tr>
<td>Physical hazard:</td>
<td>0</td>
</tr>
</tbody>
</table>

### NFPA Rating

| Health hazard: | 2 |
| Fire hazard: | 1 |
| Reactivity hazard: | 0 |

### Potential Health Effects

Inhalation - May be harmful if inhaled. May cause respiratory tract irritation.

Skin - May be harmful if absorbed through skin. May cause skin irritation.

Eyes - Causes severe eye irritation.
Section 3. Composition/Information on Ingredients

| Substances | Ingredient: Title Compound | Percent: | Formula \( \text{C}_9\text{H}_{16}\text{O}_4 \) | Formula Wt. \( 188.22 \) | CAS No. \( 123-99-9 \) | EC No. \( 204-669-1 \) |

Section 4. First Aid Measures

**General advice**
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Eye Contact**
Flush eyes with water as a precaution.

**Skin Contact**
Wash off with soap and plenty of water. Consult a physician.

**Inhalation**
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Ingestion**
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5. Firefighting Measures

**Flash Point**
209˚C

**Extinguishing Media**
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Firefighting Procedures**
Wear self-contained breathing apparatus for firefighting if necessary.

**Unusual Fire Hazards**
Not available.

Section 6. Accidental Release Measures

**Personal Precautions**
Use personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation.

**Environmental Precautions**
Do not let product enter drains.

**Methods and materials for containment and cleanup**
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

**Handling**
Avoid contact with skin and eyes. 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.

**Storage Conditions**
Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: Ambient

**Hazardous Decomposition Products**
Hazardous decomposition products formed under fire conditions. - Carbon oxides.

**Other Remarks**
Ingestion - May be harmful if swallowed.
Section 8. Exposure Controls/Personal Protection

Personal protective equipment

**EXPOSURE CONTROLS**
Contains no substances with occupational exposure limit values.
Hazardous components without workplace control parameters.
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the
deck of workday.

**PERSONAL PROTECTION**

Eye/face protection: Safety glasses with side-shields conforming to EN 166. 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: For nuisance exposures, use type P95 (US) or type P1 (EU EN 143) particle
respirator. For higher level protection, use type OVAG/P99 (US) of type ABEK-P2 (EU EN 1243) respirator
cartridges. Use respirators and components tested and approved under appropriate government standards such
as NIOSH (US) or CEN (EU).

Section 9. Physical and Chemical Properties

**Physical State**
Solid.

**Color**
White crystalline powder.

**Boiling Point**
284.5˚C

**Melting Point**
106.5˚C

**Solubility**
Soluble in boiling water and alcohol.

**Flash Point**
209˚C

**Lower explosion limit**
Not available.

**Upper explosion limit**
Not available.

**Water solubility**
Not available.

**Partition coefficient: n-octanol/water**
log Pow: 1.57 at 25˚C

**Relative vapor density**
Not available.

**Odor**
Not available.

**Evaporation rate**
Not available.

**Stability**
Stable under recommended storage conditions.

**Materials To Avoid**
Bases, reducing agents, oxidizing agents.

**Hazardous Decomposition Products**
Hazardous decomposition products formed under fire conditions. - Carbon oxides.
Section 11. Toxicological Information

Oral LD50  Not available.
Inhalation LC50 Not available.
Dermal LD50 Not available.

Other information on acute toxicity Not available.

Skin corrosion/irritation Not available.
Serious eye damage/irritation Not available.
Respiratory or skin sensitization Maximisation Test - Guinea pig Result: Not a skin sensitizer. (OECD Test Guideline 406)
Germ cell mutagenicity Reverse mutation assay. Salmonella typhimurium Result: negative

Reproductive Toxicity Not available.
Aspiration Hazard Not available.

Specific organ toxicity single exposure (GHS) Not available.
Specific organ toxicity repeated exposure (GHS) Not available.

Teratogenicity Not available.

Potential Health Effects
Inhalation - May be harmful if inhaled. May cause respiratory tract irritation.
Skin - May be harmful if absorbed through skin. May cause skin irritation.
Eyes - Causes severe eye irritation.
Ingestion - May be harmful if swallowed.

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.

Section 12. Ecological Information

Toxicity
Toxicity to fish: Static test LC50 - Leuciscus idus (Golden orfe) - 310 mg/l - 48 h
Toxicity to daphnia and other aquatic invertebrates: Static test EC50 - Daphnia magna (Water flea) - 70 mg/l - 24 h (OECD Test Guideline 202)
Toxicity to algae - Static test EC50 - Pseudokirchneriella subcapitata (green algae) - > 100

Mobility in soil Not available.

PBT and vPvB assessment not available as chemical safety assessment not required/not
Section 13. Disposal Considerations

**Waste Disposal**
Dispose of material according to all federal, state and local regulations. Offer material to a licensed, professional waste disposal company to dispose of as unused product.

Section 14. Transport Information

**DOT (US)**
Not dangerous goods.

**IATA**
Not dangerous goods.

**IMDG**
Not dangerous goods.

Further Information

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 Components**
Acute health hazard.

**Massachusetts Right To Know Components**
No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**
Azelaic Acid CAS #: 123-99-9 Revision Date:

**New Jersey Right To Know Components**
Azelaic Acid CAS #: 123-99-9 Revision Date:

**California Prop 65 Components**
This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

Section 16. Other Information

The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.