Section 1. Product and Company Identification

Product Name: Oxolinic acid
Product ID: O9458

Chemical Name (Synonyms):

Supplier: LKT Laboratories, Inc
545 Phalen Blvd.
St. Paul, MN 55130 USA
Ph: 651-644-8424 Fax: 651-644-8357
www.lktlabs.com - getinfo@lktlabs.com

Emergency Phone #: 1-800-424-9300

Section 2. Hazards Identification

GHS Classification:
- Acute toxicity, Oral (Category 4) H302
- Acute toxicity, Skin (Category 5) H313
- Target Organs: Central nervous system

GHS Label elements including precautionary statements:

Pictogram:

Signal word: Warning

Hazard and precautionary statements:
- Hazard statements
  - H302 - Harmful if swallowed.
  - H313 - May be harmful in contact with skin.
- Precautionary statement
  - None

HMIS Classification:
- Health hazard: 1
- Chronic health hazard: *
- Flammability: 0
- Physical hazards: 0

NFPA Rating:
- Health hazard: 0
- Fire: 0
- Reactivity hazard: 0

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

Section 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Substances</th>
<th>Formula Wt.</th>
<th>CAS No.</th>
<th>EC No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formula</td>
<td>C₁₃H₁₁NO₅</td>
<td>14698-29-4</td>
<td>238-750-8</td>
</tr>
<tr>
<td>Formula Wt.</td>
<td>261.23</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 4. First Aid Measures

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

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
Not available. Not flammable or combustible.

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

Firefighting Procedures
Wear self contained breathing apparatus for fire fighting if necessary.

Unusual Fire Hazards
Hazardous decomposition products formed under fire conditions. Carbon oxides, nitrogen oxides (NOx)

Section 6. Accidental Release Measures

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

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. 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: 2-8°C.

Hazardous Decomposition Products
Hazardous decomposition products formed under fire conditions. Carbon oxides, nitrogen oxides (NOx). Other decomposition products - no data available.

Other Remarks
Section 8. Exposure Controls/Personal Protection

Personal protective equipment

Contains no substances with occupational exposure limit values.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection, use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand 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.

Eye 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 and body protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9. Physical and Chemical Properties

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<tr>
<th>Physical State</th>
<th>Color</th>
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<tr>
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<table>
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<th>Boiling Point</th>
<th>Volatility</th>
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<th>Density</th>
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<table>
<thead>
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<th>Autoignition temperature</th>
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<td>Not available.</td>
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</table>

<table>
<thead>
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<th>Upper explosion limit</th>
<th>Vapor pressure</th>
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<table>
<thead>
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<th>Odor</th>
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<table>
<thead>
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<th>Odor Threshold</th>
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<thead>
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<th>Relative vapor density</th>
<th>Evaporation rate</th>
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<tbody>
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</tbody>
</table>

Section 10. Stability and Reactivity

Stability

Stable under recommended storage conditions.

Materials To Avoid

Strong oxidizing agents.

Hazardous Decomposition Products

Hazardous decomposition products formed under fire conditions. Carbon oxides, nitrogen oxides (NOx). Other decomposition products - no data available.
Section 11. Toxicological Information

**Oral LD50**  
LD50 Oral - rat - 525 mg/kg

**Inhalation LC50**  
Not available.

**Dermal LD50**  
LD Dermal - rat - > 2,000 mg/kg

**Other information on acute toxicity**  
Not available.

**Reproductive Toxicity**  
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: Harmful if absorbed through skin. May cause skin irritation.  
Eyes: May cause eye irritation.  
Ingestion: Harmful if swallowed.

**Germ cell mutagenicity**  
Genotoxicity in vitro - Hamster - Lungs  
DNA inhibition  
Genotoxicity in vitro - rat - Oral  
DNA damage

**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.  
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.  
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.

**Skin corrosion/irritation**  
Not available.

**Serious eye damage/irritation**  
Not available.

**Respiratory or skin sensitization**  
Not available.

**Aspiration Hazard**  
Not available.

**Synergistic effects**  
Not available.

**Additional Information**  
RTECS: J15075000

**Signs and symptoms of exposure**  
To the best of knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12. Ecological Information

**Toxicity**  
Not available.

**Mobility in soil**  
Not available.

**PBT and vPvB assessment**  
Not available.
Waste Disposal

**Product:** Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging:** Dispose of as unused product.

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Section 14. Transport Information

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

**IATA** Not dangerous goods.

**IMDG** Not dangerous goods.

Further Information

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Section 15. Regulatory Information

**Reach No.**

**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, chronic health hazard.

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

**Pennsylvania Right To Know Components** Oxolinic acid CAS-No. 14698-29-4

**New Jersey Right To Know Components** Oxolinic acid CAS-No. 14698-29-4

**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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Section 16. Other Information

**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.