Section 1. Product and Company Identification

**Product Name**: Lenalidomide

**Product ID**: L1852

**Chemical Name (Synonyms)**: CC-5013, Revlimid

**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

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Section 2. Hazards Identification

**GHS Classification**
- Acute Toxicity, Oral (Category 3), H301
- Acute Toxicity, Skin (Category 4), H312
- Toxic to Reproduction (Category 1B), H360
- Target Organ Systemic Toxicity, Repeated Exposure (Category 1), H372

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**GHS Label elements including precautionary statements**

**Pictogram**

**Signal word**: Danger

**Hazard and precautionary statements**

**Hazard statements**
- H301 - Toxic if swallowed.
- H312 - Harmful in contact with skin.
- H360 - May damage fertility or the unborn child.
- H372 - Causes damage to organs (hematological and gastrointestinal systems) through prolonged or repeated exposure.

**Precautionary statements**
- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P260 - Do not breathe dust, fumes, gas, mist vapors, spray.
- P264 - Wash hands thoroughly after handling.
- P270 - Do not eat, drink, or smoke when using this product.
- P280 - Wear protective gloves, protective clothing, eye protection, face protection.
- P281 - Use personal protective equipment as required.
- P301 + 310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P302 + 352 - IF ON SKIN: Wash with plenty of soap and water.
- P308 + 313 - IF exposed or concerned: Get medical attention/advice.
- P312 - Call a POISON CENTER/doctor/physician if you feel unwell.
- P314 - Get medical attention/advice if you feel unwell.
- P321 - Specific treatment (see supplemental 1st aid instructions on this label).
- P322 - Specific measures (see supplemental 1st aid instructions on this label).
- P330 - Rinse mouth.
- P362 + P364 - Take off contaminated clothing and wash it before reuse.
- P363 - Wash contaminated clothing before reuse.
- P405 - Store locked up.
- P501 - Dispose of contents/ container to an approved waste disposal plant.

**HMIS Classification**
- Health hazard: 2
- Chronic health hazard: 0
- Flammability: 0
- Physical hazards: 0

**NFPA Rating**
- Health hazard: 2
- Fire: 0
- Reactivity hazard: 0

**Potential Health Effects**
- Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
- Skin: Acute toxicity. Harmful in contact with skin. May cause skin irritation.
- Eyes: May cause eye irritation.
Section 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Substances</th>
<th>Ingredient: Title Compound</th>
<th>CAS: 191732-72-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formula</td>
<td>C_{13}H_{13}N_{3}O_{3}</td>
<td>Formula Wt. 259.26</td>
</tr>
<tr>
<td>CAS No.</td>
<td>191732-72-6</td>
<td>EC No.</td>
</tr>
</tbody>
</table>

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 plenty of water for at least 15 minutes and seek medical attention immediately.

Skin Contact
Wash with soap and water for 15 minutes and seek medical attention immediately. Wash contaminated clothing before reuse.

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.

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

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

Unusual Fire Hazards
May emit toxic fumes under fire conditions.

Section 6. Accidental Release Measures

Personal Precautions
Use personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions
Prevent further leakage or spillage if safe to do so. 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 without creating dust. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Handling
Wear gloves, goggles, and lab coat when handling this material. Use in a well ventilated area. Use only in a chemical fume hood. Wash thoroughly after handling material.

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

Hazardous Decomposition Products
Carbon monoxide, carbon dioxide, nitrogen oxides.

Other Remarks
None
Section 8. Exposure Controls/Personal Protection

**Personal protective equipment**

***EXPOSURE CONTROLS***

Contains no substances with occupational exposure limit values.

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

**PERSONAL PROTECTION**

***Eye Protection***

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (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.

***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.

***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).

Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>White to light yellow powder.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Boiling Point</th>
<th>Volatility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Melting Point</th>
<th>Density</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Solubility</th>
<th>pH</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO (≤50 mg/mL): Very slightly soluble in water (≤1 mg/mL).</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flash Point</th>
<th>Ignition temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lower explosion limit</th>
<th>Autoignition temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Upper explosion limit</th>
<th>Vapor pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water solubility</th>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very slightly soluble in water (≤1 mg/mL).</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Partition coefficient: n-octanol/water</th>
<th>Odor Threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Relative vapor density</th>
<th>Evaporation rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Section 10. Stability and Reactivity

**Stability**

Stable under recommended storage conditions.

**Materials To Avoid**

Strong oxidizing agents.

**Hazardous Decomposition Products**

Carbon monoxide, carbon dioxide, nitrogen oxides.
### Section 11. Toxicological Information

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Oral LD50</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Inhalation LC50</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Dermal LD50</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Other information on acute toxicity</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Reproductive Toxicity</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Specific organ toxicity single exposure (GHS)</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Specific organ toxicity repeated exposure (GHS)</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Teratogenicity</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Germ cell mutagenicity</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Aspiration Hazard</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Synergistic effects</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Additional Information</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Skin corrosion/irritation</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Serious eye damage/irritation</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Respiratory or skin sensitization</strong></td>
<td>Not available</td>
</tr>
</tbody>
</table>

### Potential Health Effects

- **Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.  
  Skin: Acute toxicity. Harmful in contact with skin. May cause skin irritation.  
  Eyes: May cause eye irritation.  
  Ingestion: Acute toxicity. Toxic if swallowed.  
  Reproduction: May damage fertility or the unborn child.  
  Organs: Cause disorders to blood, stomach, and intestines.

### 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.

### Section 12. Ecological Information

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Toxicity</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Mobility in soil</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>PBT and vPvB assessment</strong></td>
<td>PBT/vPvB assessment not available as chemical safety assessment not required/not available</td>
</tr>
</tbody>
</table>
### Persistence and degradability
Not available.

### Bioaccumulative potential
Not available.

### Other adverse effects
Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

### Section 13. Disposal Considerations

**Waste Disposal**
- Dispose of material according to all federal, state, and local regulations.
- Offer material to a licensed, professional wasted 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.

### 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 II, 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**
- No SARA Hazards

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

**Pennsylvania Right To Know Components**
- Lenalidomide
  - CAS #: 191732-72-6
  - Revision Date:

**New Jersey Right To Know Components**
- Lenalidomide
  - CAS #: 191732-72-6
  - Revision Date:

**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

**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.