Section 1. Product and Company Identification

Product Name: Imiquimod
Product ID: I5034
Chemical Name (Synonyms): Aldara; R-837

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 2) H300
Skin irritation (Category 2) H315
Eye irritation (Category 2A) H319
Specific target organ toxicity - single exposure (Category 3) Respiratory system, H335

GHS Label elements including precautionary statements

Pictogram

Signal word: Danger

Hazard and precautionary statements

Hazard statements:
H300 - Fatal if swallowed.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.

Precautionary statements:
P261 - Avoid breathing dust, fumes, gas, mist, vapors, spray.
P264 - Wash skin thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, eye protection, face protection.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
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.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P321 - Specific treatment (see supplemental first aid instructions on this label).
P330 - rinse mouth.
P332 + P313 - If skin irritation occurs: Get medical advice/attention.
P337 + P313 - If eye irritation persists: Get medical advice/attention.
P362 - Take off contaminated clothing and wash before reuse.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container to an approved waste disposal plant.

HMIS Classification:
Health hazard: 3
Chronic health hazard: *
Flammability: 0
Physical hazard: 0

NFPA Rating:
Health hazard: 3
Fire hazard: 0
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. Causes skin irritation.
Eyes - Causes serious eye irritation.
## Section 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Substances</th>
<th>Ingredient: Title Compound</th>
<th>Percent: 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formula</td>
<td>( \text{C}<em>{14}\text{H}</em>{16}\text{N}_{4} )</td>
<td>240.30</td>
</tr>
<tr>
<td>CAS No.</td>
<td>99011-02-6</td>
<td></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 consult a physician.

#### Skin Contact
Wash off with soap and plenty of water. Take victim immediately to hospital. 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.

#### 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
Carbon oxides, nitrogen oxides (NOx).

### Section 6. Accidental Release Measures

#### Personal Precautions
Wear respiratory protection. 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. 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: Ambient

#### Hazardous Decomposition Products
Not available.

#### Other Remarks

Ingestion - Acute toxicity. Fatal if swallowed.
**Section 8. Exposure Controls/Personal Protection**

**Personal protective equipment**
- **EXPOSURE CONTROLS**: Contains no substances with occupational exposure limit values. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

**PERSONAL PROTECTION**
- **Eye/face 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).
- **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**: 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. 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><strong>Physical State</strong></th>
<th><strong>Color</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid.</td>
<td>White crystalline powder.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Boiling Point</strong></th>
<th><strong>Vapor pressure</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Melting Point</strong></th>
<th><strong>Density</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>292-294°C</td>
<td>Not available.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Solubility</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Insoluble in water, DMSO (3 mg/mL) or DMF. Slightly soluble in water (warm to 37°C, vortex); insoluble in 100% ethanol.</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th><strong>Upper explosion limit</strong></th>
<th><strong>Odor</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Water solubility</strong></th>
<th><strong>Odor Threshold</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Insoluble in water.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Partition coefficient: n-octanol/water</strong></th>
<th><strong>Evaporation rate</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow: 2.908</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Relative vapor density</strong></th>
<th><strong>Threshold</strong></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**: Not available.
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 Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
Germ cell mutagenicity Not available.
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.
Reproductive Toxicity Not available.
Aspiration Hazard Not available.
Specific organ toxicity single exposure (GHS) Inhalation - May cause respiratory irritation.
Specific organ toxicity repeated exposure (GHS) Not available.
Synergistic effects Not available.
Teratogenicity Not available.
Additional Information RTECS: Not available.
Signs and symptoms of exposure Not available.
Potential Health Effects Inhalation - May be harmful if inhaled. May cause respiratory tract irritation.
Skin - May be harmful if absorbed through skin. Causes skin irritation.
Eyes - Causes serious eye irritation.
Ingestion - Acute toxicity. Fatal if swallowed.

Section 12. Ecological Information

Toxicity Not available.
Mobility in soil Not available.
PBT and vPvB assessment PBT/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. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Section 14. Transport Information**

**DOT (US)**
- UN number: 2811
- Class: 6.1
- Packing Group: III
- Proper shipping name: Toxic solid, organic, n.o.s. (Imiquimod)
- Marine pollutant: No
- Poison inhalation hazard: No

**IATA**
- UN number: 2811
- Class: 6.1
- Packing Group: III
- Proper shipping name: Toxic solid, organic, n.o.s. (Imiquimod)

**IMDG**
- UN number: 2811
- Class: 6.1
- Packing Group: III
- EMS #: F-A, S-A
- Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Imiquimod)
- Marine pollutant: No

**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**
- Imiquimod
- CAS #: 99011-02-6
- Revision Date:

**New Jersey Right To Know Components**
- Imiquimod
- CAS #: 99011-02-6
- 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**

**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.