### Section 1. Product and Company Identification

**Product Name** Rotenone  
**Product ID** R5878  
**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 3) - H301  
Skin irritation (Category 2), H315  
Eye irritation (Category 2A), H319  
Specific target organ toxicity - single exposure (Category 3) Respiratory system, H335  
Acute aquatic toxicity (Category 1), H400  
Chronic aquatic toxicity (Category 1), H410

**Pictogram**  
*Danger*  
**Signal word** Danger  
**Hazard and precautionary statements**  
**Hazard statements**  
H301 - Toxic if swallowed.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.  
H410 - Very toxic to aquatic life with long lasting effects.  
**Precautionary statements**  
P261 - Avoid breathing dust, fumes, gas, mist, vapors and 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.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection and face protection.  
P280 - Wear protective gloves.  
P301 + P310 + P330 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
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.  
P381 - Collect spillage.  
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: 2  
Chronic health hazard: *  
Flammability: 0  
Physical hazard: 0

**NFPA Rating**  
Health hazard: 2  
Fire hazard: 0  
Activity 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.
Ingestion: Acute toxicity. Toxic if swallowed.

### Section 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Substances</th>
<th>Formula</th>
<th>CAS No.</th>
<th>Formula Wt.</th>
<th>EC No.</th>
</tr>
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<tbody>
<tr>
<td>C23H22O6</td>
<td>83-79-4</td>
<td></td>
<td>394.41</td>
<td>201-501-9</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**
  
  Rinse thoroughly 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**
  
  Rinse mouth with water. Contact a physician or poison control immediately. Never give anything by mouth to an unconscious person.

### 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 and protective clothing for firefighting if necessary.

- **Unusual Fire Hazards**
  
  Carbon oxides.

### Section 6. Accidental Release Measures

- **Personal Precautions**
  
  Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

- **Environmental Precautions**
  
  Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

- **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**
  
  Not available.

- **Other Remarks**
  
  Storage class (TRGS 510): Noncombustible, acute toxic Cat. 3 / toxic hazardous materials or hazardous materials causing chronic effects. This product stores ambient.
Solid powder.

210-220˚C at 0.7 hPa (0.5 mmHg)

159 - 164˚C.

Slightly soluble in water.

Not available.

log Pow: 4.1

1.270 g/cm³ at 2˚C.

Physical State

Color

White crystal powder.

Not available.

Boiling Point

Volatility

210-220˚C at 0.7 hPa (0.5 mmHg)

Not available.

Melting Point

Density

159 - 164˚C.

Not available.

Solubility

pH

Slightly soluble in water.

Not available.

Flash Point

Ignition temperature

Not available.

Lower explosion limit

Autoignition temperature

Not available.

Upper explosion limit

Vapor pressure

Not available.

Water solubility

Odor

Slightly soluble in water.

Not available.

Partition coefficient: n-octanol/water

Odor Threshold

log Pow: 4.1

Not available.

Relative vapor density

Evaporation rate

1.270 g/cm³ at 2˚C.

Not available.

Section 10. Stability and Reactivity

Stable under recommended storage conditions.

Materials To Avoid

Strong oxidizing agents.

Hazardous Decomposition Products

Not available.
Section 11. Toxicological Information

**Oral LD50**
- LD50 Oral - Rat - 60 mg/kg

**Inhalation LC50**
- Not available.

**Dermal LD50**
- LD50 Dermal - Rabbit - > 1,000 mg/kg

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

**Skin corrosion/irritation**
- Not available.

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

**Respiratory or skin sensitization**
- Not available.

**Germ cell mutagenicity**
- Not available.

**Reproductive Toxicity**
- Not available.

**Aspiration Hazard**
- Not available.

**Synergistic effects**
- Not available.

**Specific organ toxicity single exposure (GHS)**
- Not available.

**Specific organ toxicity repeated exposure (GHS)**
- Not available.

**Additional Information**
- RTECS: 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. Causes skin irritation.
- Eyes: Causes serious eye irritation.
- Ingestion: Acute toxicity. Toxic if swallowed.

**Carcinogenicity**
- This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP or EPA classification.
  - 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**
- Fish: LC50 - Carassius auratus (goldfish) - 0.41 - 0.6 mg/l - 96.0 h. Toxicity to daphnia and other aquatic vertebrates EC50 - Daphnia pulex (Water flea) - 0.074 - 0.134 mg/l - 48 h.

**Mobility in soil**
- Not available.

**PBT and vPvB assessment**
- PBT/vPvB assessment not available as chemical safety assessment not required/ not
Persistence and degradability: Not available.

Bioaccumulative potential: Lepomis macrochirus - 30 d-5.2 µg/l.
Bioconcentration factor (BCF): 26

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. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of as unused product.

Section 14. Transport Information

DOT (US)
UN number: 2811   Class: 6.1   Packing group: III
Proper shipping name: Toxic solids, organic, n.o.s. (Rotenone)
Reportable quantity (RQ)   Marine pollutant: yes   Poison inhalation hazard: No

IATA
UN number: 2811   Class: 6.1   Packing group: III
Proper shipping name: Toxic solid, organic, n.o.s. (Rotenone)

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

Further Information

Section 15. Regulatory Information

Reach No.

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
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 and chronic health hazard.

Massachusetts Right To Know Components
Rotenone   CAS #: 83-79-4   Revision Date: 1991-07-01

Pennsylvania Right To Know Components
Rotenone   CAS #: 83-79-4   Revision Date: 1991-07-01

New Jersey Right To Know Components
Rotenone   CAS #: 83-79-4   Revision Date: 1991-07-01

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.
For emergencies in the USA, call CHEMTREC 800-424-9300