# MSDS - Material Safety Data Sheet for: Radicicol

## Section 1. Product and Company Information

<table>
<thead>
<tr>
<th>Name:</th>
<th>Radicicol</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS Number:</td>
<td>12772-57-5</td>
</tr>
<tr>
<td>Catalog Code:</td>
<td>RD</td>
</tr>
<tr>
<td>Synonyms:</td>
<td>Monorden, RHI-12648, NSC 294404</td>
</tr>
<tr>
<td>Company Identification:</td>
<td>Fermentek Ltd, See page footer for contact details</td>
</tr>
</tbody>
</table>

## Section 2. Composition/Information on Ingredient

| Chemical Formula: | C_{18}H_{17}ClO_{6} |
| RTECS | RR1105000 |

## Section 3. Hazards Identification

### EMERGENCY OVERVIEW
- Toxic (USA) Harmful (EU).
- May cause cancer.
- Toxic if swallowed.
- Irritating to eyes, respiratory system and skin.
- Repeated exposure may cause skin dryness or cracking.
- Vapours may cause drowsiness and dizziness.

### Target organ(s)
- Nerves. Liver. Probable Carcinogen (US)

### HMIS RATING
- HEALTH: 2; FLAMMABILITY: 2; REACTIVITY: 2

### NFPA RATING
- HEALTH: 2; FLAMMABILITY: 2; REACTIVITY: 2

## Section 4. First Aid Measures

### Eye Contact
- Check for and remove contact lenses. Flush eyes with running water for at least 15 minutes separating eyelids.
- Seek medical attention immediately.

### Skin Contact
- Wash with soap and water for 15 minutes. Remove contaminated clothing and shoes. Seek medical attention immediately.

### Inhalation
- Remove from exposure. If breathing is difficult, administer oxygen. If breathing stops, administer artificial respiration. Seek medical attention immediately. Provide chemical label and MSDS if possible.

### Ingestion
- Remove dentures and clear mouth. If person is conscious, rinse mouth with water. Call physician or poison control immediately. Provide chemical label and MSDS information if possible.

## Section 5. Fire and Explosion Data

### Flammability
- Not Available

### Flash Point
- Not Available

### Combustion products
- CO, CO_{2}, NO, NO_{2}

### Extinguishing Media
- Carbon Dioxide, Dry chemical powder, polymer foam, water spray

### Special Firefighting Procedures
- Use self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

### Unusual Fire/Explosion Hazards
- None known

## Section 6 - Accidental Release Measures

### Cleanup Procedures
- Wearing appropriate protective gear as outlined under “Protective equipment” wipe up spill and place in sealed container and hold for disposal. Avoid raising dust. Ventilate the area and wash spill site after material has been removed

### Waste Disposal Method
- Observe all Federal, State and Local regulations concerning the disposal of this product. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete

## Section 7 - Handling and Storage

### Protective Equipment
- For spill clean up, wear suitable protective clothing, chemical resistant rubber gloves, rubber boots, and chemical safety goggles. Self-contained breathing apparatus or NIOSH/MSHA approved respirator is recommended.

### Storage and Handling
- This product should be kept in a tightly closed container. This product should be handled only by qualified personnel.
## Section 8 - Exposure Controls / Personal protection

<table>
<thead>
<tr>
<th>General</th>
<th>Use only in a chemical fume hood. Safety shower and eye bath. Use adequate ventilation to keep airborne concentrations low.</th>
</tr>
</thead>
</table>

## Section 9. Physical Data

<table>
<thead>
<tr>
<th>Appearance</th>
<th>yellow powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular Weight</td>
<td>365</td>
</tr>
<tr>
<td>Melting</td>
<td>191°C</td>
</tr>
<tr>
<td>Solubility</td>
<td>DMSO, Ethanol,</td>
</tr>
</tbody>
</table>

## Section 10. Stability and Reactivity Data

<table>
<thead>
<tr>
<th>Stability</th>
<th>This material is stable if stored as directed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conditions to Avoid</td>
<td>Excess heat, incompatible materials, strong oxidizers</td>
</tr>
<tr>
<td>Incompatibles</td>
<td>Reactive with oxidizing agents, acids, alkalis.</td>
</tr>
<tr>
<td>Hazardous polymerization</td>
<td>Will not occur</td>
</tr>
</tbody>
</table>

## Section 11 - Toxicological Information

<table>
<thead>
<tr>
<th>RTECS#:</th>
<th>Skin Contact: Causes skin irritation. Skin Absorption: May be harmful if absorbed through the skin. Eye Contact: Causes eye irritation. Inhalation: May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract. Ingestion: Harmful if swallowed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signs and symptoms of exposure</td>
<td>Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Contact with eyes can cause redness, tearing, and blurred vision. Prolonged or repeated contact with skin can cause defatting and dermatitis. Drowsiness. Dizziness.</td>
</tr>
<tr>
<td>CONDITIONS AGGRAVATED BY EXPOSURE</td>
<td>May cause nervous system disturbances</td>
</tr>
<tr>
<td>TOXICITY DATA</td>
<td>Oral, Mouse, LD50=300 mg/kg Intravenous Mouse; LD50=175 MG/KG</td>
</tr>
<tr>
<td>CHRONIC EXPOSURE - CARCINOGEN</td>
<td>Probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification</td>
</tr>
</tbody>
</table>

## Section 12 - Ecological Data

| Ecotoxicological Information: | None Available |

## Section 13 - Disposal Considerations

| Appropriate method of disposal of substance or preparation | Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. |
### Section 14 - Transport Information

**US DOT**
- Proper Shipping Name: None
- Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

**IATA**
- Non-Hazardous for Air Transport: Non-hazardous for air transport

### Section 15 - Regulatory Information

**US classification and label text**
- Indication of Danger: Toxic (USA) Harmful (EU).
- Risk Statements: May cause cancer. Toxic if swallowed. Irritating to eyes, respiratory system and skin. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.
- Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Avoid exposure - obtain special instructions before use.

**United States regulatory information**
- SARA LISTED: No

**European information**
- Symbol of Danger: Xn
- Indication of Danger: Harmful.
- Risk Statements: R: 22-36/37/38: Harmful if swallowed. Irritating to eyes, respiratory system and skin.
- Safety Statements: S: 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### Section 16 - Other Information

**Warranty**
- For R&D use only. Not for drug, household or other uses. For use only by trained personnel.

**Disclaimer**
- The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. The burden of safe use of this material rests entirely with the user. Fermentek shall not be held liable or any damage resulting from handling or from contact with the above product.