

Revision: 07/06/2018

Supersedes Revision: 09/18/2013 according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008 Section 1. Identification of the Substance/Mixture and of the Company/Undertaking 1.1 **Product Code:** 13089 **Product Name:** Radicicol Synonyms: (4E)-8-chloro-1aR,14R,15,15aR-tetrahydro-9,11-dihydroxy-14-methyl-6H-oxireno[e][2Z]benzoxa cyclotetradecin-6,12(7H)-dione; KF58332; KF9-A; Monorden; NSC 294404; KF58332; KF9-A; 1.2 Relevant identified uses of the substance or mixture and uses advised against: **Relevant identified uses:** For research use only, not for human or veterinary use. 1.3 Details of the Supplier of the Safety Data Sheet: **Company Name:** Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 Web site address: www.caymanchem.com Information: Cayman Chemical Company +1 (734)971-3335 1.4 **Emergency telephone number: Emergency Contact:** CHEMTREC Within USA and Canada: +1 (800)424-9300 CHEMTREC Outside USA and Canada: +1 (703)527-3887 Section 2. Hazards Identification 2.1 **Classification of the Substance or Mixture:** Acute Toxicity: Oral, Category 3 Skin Corrosion/Irritation, Category 2 Serious Eye Damage/Eye Irritation, Category 2A Specific Target Organ Toxicity (single exposure), Category 3 2.2 Label Elements: GHS Signal Word: Danger **GHS Hazard Phrases:** H301: Toxic if swallowed. H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation. **GHS Precaution Phrases:** P264: Wash {hands} thoroughly after handling. P280: Wear {protective gloves/protective clothing/eye protection/face protection}. P362+364: Take off contaminated clothing and wash it before reuse. P261: Avoid breathing {dust/fume/gas/mist/vapours/spray}. **GHS Response Phrases:** P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P330: Rinse mouth. P302+352: IF ON SKIN: Wash with plenty of soap and water. P332+313: If skin irritation occurs, get medical advice/attention. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+313: If eye irritation persists, get medical advice/attention.

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|             | HEMICAL  |  |   |   |   | Supersedes Revision: 09/18/2013  |  |  |  |  |  |
|-------------|--|--|---|---|---|--|--|--|--|--|--|
|             |  |  | N CENTER or doctor/physiciar  |   |   |  |  |  |  |  |  |
|             | P304+  | 340: IF INHALED:   | Remove victim to fresh air and  | keep at rest in a pos   | sition comfortable  | e for breathing.   |  |  |  |  |  |
|             | GHS S  | Storage and Dispo  | osal Phrases:   |   |   |  |  |  |  |  |  |
|             | Please   | Please refer to Section 7 for Storage and Section 13 for Disposal information.   |   |   |   |  |  |  |  |  |  |
| 2.3         | Advers   | e Human Health   | Causes serious eye irritation.  |   |   |  |  |  |  |  |  |
|             | Effects  | and Symptoms:  | Causes skin irritation.   |   |   |  |  |  |  |  |  |
|             |  |  | Material may be irritating to the   |   |   | spiratory tract.   |  |  |  |  |  |
|             |  |  | May be harmful by inhalation<br>May cause respiratory irritation  | -   | bsorption.  |  |  |  |  |  |  |
|             |  |  |   |   |   |  |  |  |  |  |  |
|             |  |  | been there up here investigated   |   |   |  |  |  |  |  |  |
|             |  |  | To the best of our knowledge  | , the toxicological pr  | openies nave no   | been thoroughly investigated.  |  |  |  |  |  |
|             |  | Sect   | tion 3. Composition   | /Information o  | on Ingredie   | nts  |  |  |  |  |  |
| CAS<br>RTEC |  | Hazardous Com<br>REACH Registra  | oonents (Chemical Name)/<br>tion No.  | Concentration   | EC No./<br>EC Index No.   | GHS Classification   |  |  |  |  |  |
|             | 2-57-5   | Radicicol  |   | 100.0 %   | 642-889-3   | Acute Tox.(O) 3: H301  |  |  |  |  |  |
| RR11        | 05000  |  |   |   | NA  | Skin Corr. 2: H315   |  |  |  |  |  |
|             |  |  |   |   |   | Eye Damage 2A: H319<br>STOT (SE) 3: H335 H336  |  |  |  |  |  |
|             |  |  |   | <u> </u>  |   |  |  |  |  |  |  |
|             |  |  | Section 4. Fi   | rst Aid Measu   | ires  |  |  |  |  |  |  |
| 4.1         | Description of First Aid   |  |   |   |   |  |  |  |  |  |  |
|             | Measur   | es:  |   |   |   |  |  |  |  |  |  |
|             | In Case  | of Inhalation:   | Remove to fresh air. If not bree<br>Get immediate medical attent  |   | respiration or giv  | e oxygen by trained personne   |  |  |  |  |  |
|             | In Case  | of Skin Contact:   | -   | with soap and plenty of water for at least 20 minutes. Remove contaminated tention if symptoms occur. Wash clothing before reuse.   |   |  |  |  |  |  |  |
|             |  |  | clothing. Get medical attentio  | n if symptoms occur.  | . Wash clothing b   | efore reuse.   |  |  |  |  |  |
|             | In Case  | of Eye Contact:  | -   | eyes with plenty of wa  | -   |  |  |  |  |  |  |
|             |  | of Eye Contact:  | Hold eyelids apart and flush e  | eyes with plenty of wannel.   | ater for at least 2   | 0 minutes. Have eyes examine   |  |  |  |  |  |
|             |  | -  | Hold eyelids apart and flush e<br>and tested by medical person  | eyes with plenty of wannel.<br>rovided person is con  | ater for at least 2   | 0 minutes. Have eyes examine<br>ve anything by mouth to an   |  |  |  |  |  |
|             |  | -  | Hold eyelids apart and flush e<br>and tested by medical person<br>Wash out mouth with water p   | eyes with plenty of wannel.<br>rovided person is con  | ater for at least 2   | 0 minutes. Have eyes examine<br>ve anything by mouth to an   |  |  |  |  |  |
|             |  | -  | Hold eyelids apart and flush e<br>and tested by medical person<br>Wash out mouth with water p<br>unconscious person. Get med  | eyes with plenty of wa<br>nel.<br>rovided person is con<br>dical attention. Do NG   | ater for at least 2<br>nscious. Never gi<br>OT induce vomitir                                   | 0 minutes. Have eyes examine<br>ve anything by mouth to an   |  |  |  |  |  |
| 5.1         | In Case  | -  | Hold eyelids apart and flush e<br>and tested by medical person<br>Wash out mouth with water p<br>unconscious person. Get med<br>medical personnel.  | eyes with plenty of wa<br>nel.<br>rovided person is con<br>dical attention. Do No<br>Fighting Mea   | ater for at least 20<br>nscious. Never gi<br>OT induce vomitin                                  | 0 minutes. Have eyes examine<br>ve anything by mouth to an<br>ng unless directed to do so by           |  |  |  |  |  |
| 5.1         | In Case  | of Ingestion:  | Hold eyelids apart and flush e<br>and tested by medical person<br>Wash out mouth with water p<br>unconscious person. Get med<br>medical personnel.<br>Section 5. Fire   | eyes with plenty of wa<br>nel.<br>rovided person is con<br>dical attention. Do No<br>Fighting Mea<br>arbon dioxide, water   | ater for at least 20<br>nscious. Never gi<br>OT induce vomitin                                  | 0 minutes. Have eyes examine<br>ve anything by mouth to an<br>ng unless directed to do so by           |  |  |  |  |  |
| 5.1         | In Case<br>Suitable<br>Media:  | e of Ingestion:<br>e Extinguishing   | Hold eyelids apart and flush e<br>and tested by medical person<br>Wash out mouth with water p<br>unconscious person. Get med<br>medical personnel.<br>Section 5. Fire<br>Use alcohol-resistant foam, o  | eyes with plenty of wa<br>nel.<br>rovided person is con<br>dical attention. Do No<br>Fighting Mea<br>earbon dioxide, water<br>exposed containers.                               | ater for at least 20<br>nscious. Never gi<br>OT induce vomitin                                  | 0 minutes. Have eyes examine<br>ve anything by mouth to an<br>ng unless directed to do so by           |  |  |  |  |  |
| 5.1         | In Case<br>Suitable<br>Media:  | e of Ingestion:<br>e Extinguishing   | Hold eyelids apart and flush e<br>and tested by medical person<br>Wash out mouth with water p<br>unconscious person. Get med<br>medical personnel.<br>Section 5. Fire<br>Use alcohol-resistant foam, o<br>Use water spray to cool fire-e  | eyes with plenty of wa<br>nel.<br>rovided person is con<br>dical attention. Do No<br>Fighting Mea<br>earbon dioxide, water<br>exposed containers.                               | ater for at least 20<br>nscious. Never gi<br>OT induce vomitin                                  | 0 minutes. Have eyes examine<br>ve anything by mouth to an<br>ng unless directed to do so by           |  |  |  |  |  |
|             | In Case<br>Suitable<br>Media:<br>Unsuita<br>Media:   | e of Ingestion:<br>e Extinguishing<br>able Extinguishing   | Hold eyelids apart and flush e<br>and tested by medical person<br>Wash out mouth with water p<br>unconscious person. Get med<br>medical personnel.<br>Section 5. Fire<br>Use alcohol-resistant foam, o<br>Use water spray to cool fire-e  | eyes with plenty of wa<br>nel.<br>rovided person is con<br>dical attention. Do No<br>Fighting Mea<br>earbon dioxide, water<br>exposed containers.                               | ater for at least 20<br>nscious. Never gi<br>OT induce vomitin                                  | 0 minutes. Have eyes examine<br>ve anything by mouth to an<br>ng unless directed to do so by           |  |  |  |  |  |
|             | In Case<br>Suitable<br>Media:<br>Unsuita<br>Media:   | e of Ingestion:<br>e Extinguishing<br>able Extinguishing<br>able Properties an   | Hold eyelids apart and flush e<br>and tested by medical person<br>Wash out mouth with water p<br>unconscious person. Get med<br>medical personnel.<br>Section 5. Fire<br>Use alcohol-resistant foam, o<br>Use water spray to cool fire-e<br>a A solid water stream may be   | eyes with plenty of wa<br>nel.<br>rovided person is con<br>dical attention. Do No<br>Fighting Mea<br>earbon dioxide, water<br>exposed containers.                               | ater for at least 20<br>nscious. Never gi<br>OT induce vomitin                                  | 0 minutes. Have eyes examine<br>ve anything by mouth to an<br>ng unless directed to do so by           |  |  |  |  |  |
|             | In Case<br>Suitable<br>Media:<br>Unsuita<br>Media:<br>Flamma   | e of Ingestion:<br>e Extinguishing<br>able Extinguishing<br>able Properties an   | Hold eyelids apart and flush e<br>and tested by medical person<br>Wash out mouth with water p<br>unconscious person. Get med<br>medical personnel.<br>Section 5. Fire<br>Use alcohol-resistant foam, o<br>Use water spray to cool fire-e<br>a A solid water stream may be   | eyes with plenty of wa<br>nel.<br>rovided person is con<br>dical attention. Do No<br>Fighting Mea<br>earbon dioxide, water<br>exposed containers.                               | ater for at least 20<br>nscious. Never gi<br>OT induce vomitin                                  | 0 minutes. Have eyes examine<br>ve anything by mouth to an<br>ng unless directed to do so by           |  |  |  |  |  |
|             | In Case<br>Suitable<br>Media:<br>Unsuita<br>Media:<br>Flamma   | e of Ingestion:<br>e Extinguishing<br>able Extinguishing<br>able Properties an<br>s:                                     | Hold eyelids apart and flush e<br>and tested by medical person<br>Wash out mouth with water p<br>unconscious person. Get med<br>medical personnel.<br>Section 5. Fire<br>Use alcohol-resistant foam, o<br>Use water spray to cool fire-e<br>a A solid water stream may be<br>adNo data available.   | eyes with plenty of wa<br>nel.<br>rovided person is con<br>dical attention. Do No<br>Fighting Mea<br>earbon dioxide, water<br>exposed containers.                               | ater for at least 20<br>nscious. Never gi<br>OT induce vomitin                                  | 0 minutes. Have eyes examine<br>ve anything by mouth to an<br>ng unless directed to do so by           |  |  |  |  |  |
|             | In Case<br>Suitable<br>Media:<br>Unsuita<br>Media:<br>Flamma<br>Hazarda                                  | e of Ingestion:<br>e Extinguishing<br>able Extinguishing<br>able Properties an<br>s:                                     | Hold eyelids apart and flush e<br>and tested by medical person<br>Wash out mouth with water p<br>unconscious person. Get med<br>medical personnel.<br>Section 5. Fire<br>Use alcohol-resistant foam, o<br>Use water spray to cool fire-e<br>a A solid water stream may be<br>adNo data available.<br>No data available.                                     | eyes with plenty of wa<br>nel.<br>rovided person is con<br>dical attention. Do No<br>Fighting Mea<br>earbon dioxide, water<br>exposed containers.                               | ater for at least 20<br>nscious. Never gi<br>OT induce vomitin<br>ASUICES<br>r, or dry chemical | 0 minutes. Have eyes examine<br>ve anything by mouth to an<br>ng unless directed to do so by           |  |  |  |  |  |
|             | In Case<br>Suitable<br>Media:<br>Unsuita<br>Media:<br>Flamma<br>Hazarda<br>Flash P<br>Explosi            | e of Ingestion:<br>e Extinguishing<br>able Extinguishing<br>able Properties an<br>s:                                     | Hold eyelids apart and flush e<br>and tested by medical person<br>Wash out mouth with water p<br>unconscious person. Get med<br>medical personnel.<br><b>Section 5. Fire</b><br>Use alcohol-resistant foam, o<br>Use water spray to cool fire-e<br>g A solid water stream may be<br>odNo data available.<br>No data available.<br>No data.                  | eyes with plenty of wa<br>inel.<br>rovided person is con<br>dical attention. Do No<br>Fighting Mea<br>earbon dioxide, water<br>exposed containers.<br>inefficient.              | ater for at least 20<br>nscious. Never gi<br>OT induce vomitin<br>ASUICES<br>r, or dry chemical | 0 minutes. Have eyes examine<br>ve anything by mouth to an<br>ng unless directed to do so by           |  |  |  |  |  |
| 5.1         | In Case<br>Suitable<br>Media:<br>Unsuita<br>Media:<br>Flamma<br>Hazards<br>Flash P<br>Explosi<br>Autoigr | e of Ingestion:<br>e Extinguishing<br>able Extinguishing<br>able Properties an<br>s:<br>rt:<br>ive Limits:<br>hition Pt: | Hold eyelids apart and flush e<br>and tested by medical person<br>Wash out mouth with water p<br>unconscious person. Get med<br>medical personnel.<br><b>Section 5. Fire</b><br>Use alcohol-resistant foam, o<br>Use water spray to cool fire-e<br>a A solid water stream may be<br>adNo data available.<br>No data available.<br>No data.<br>LEL: No data. | eyes with plenty of wa<br>nel.<br>rovided person is con<br>dical attention. Do No<br>Fighting Mea<br>carbon dioxide, water<br>exposed containers.<br>inefficient.<br>UEL: No da | ater for at least 2<br>nscious. Never gi<br>OT induce vomitin<br>ASURES<br>r, or dry chemical   | 0 minutes. Have eyes examine<br>ve anything by mouth to an<br>ng unless directed to do so by<br>spray. |  |  |  |  |  |

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|             | S   | Section 6. Accidental Release Measures   |  |  |  |  |  |  |
|-------------|---|--|--|--|--|--|--|--|
| 6.1         | Protective Precautions,   | Avoid raising and breathing dust, and provide adequate ventilation.                                  |  |  |  |  |  |  |
|             | Protective Equipment and A  | As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,      |  |  |  |  |  |  |
|             | Emergency Procedures:   | and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).         |  |  |  |  |  |  |
| 6.2         | Environmental Take steps to avoid release into the environment, if safe to do so.   |  |  |  |  |  |  |  |
|             | Precautions:  |  |  |  |  |  |  |  |
| 6.3         | 3 Methods and Material For Contain spill and collect, as appropriate.   |  |  |  |  |  |  |  |
|             | Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.  |  |  |  |  |  |  |  |
|             | Up:   |  |  |  |  |  |  |  |
|             | Section 7. Handling and Storage   |  |  |  |  |  |  |  |
| 7.1         | Precautions To Be Taken A   | woid breathing dust/fume/gas/mist/vapours/spray.   |  |  |  |  |  |  |
|             |   | void prolonged or repeated exposure.   |  |  |  |  |  |  |
| 7.2         | Precautions To Be Taken K   | Leep container tightly closed.   |  |  |  |  |  |  |
|             |   | Store in accordance with information listed on the product insert.                                   |  |  |  |  |  |  |
|             | Sectio  | on 8. Exposure Controls/Personal Protection  |  |  |  |  |  |  |
| <b>8</b> .1 | Exposure Parameters:  |  |  |  |  |  |  |  |
| 8.2         | Exposure Controls:  |  |  |  |  |  |  |  |
| 8.2.1       | -   | Jse process enclosures, local exhaust ventilation, or other engineering controls to control airborne |  |  |  |  |  |  |
|             |   | evels below recommended exposure limits.   |  |  |  |  |  |  |
| 8.2.2       |   | nent:  |  |  |  |  |  |  |
|             |   | Safety glasses   |  |  |  |  |  |  |
|             | -   | Compatible chemical-resistant gloves   |  |  |  |  |  |  |
|             | Other Protective Clothing:Lab coat  |  |  |  |  |  |  |  |
|             | -   | IIOSH approved respirator, as conditions warrant.  |  |  |  |  |  |  |
|             | (Specify Type):   |  |  |  |  |  |  |  |
|             |   | )o not take internally.  |  |  |  |  |  |  |
|             | Work/Hygienic/Maintenan Do not take internally.<br>ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety show |  |  |  |  |  |  |  |
|             | Wash thoroughly after handling.   |  |  |  |  |  |  |  |
|             | No data available.  |  |  |  |  |  |  |  |
|             | So  | ction 9. Physical and Chemical Properties  |  |  |  |  |  |  |
| 9.1         | Information on Basic Physic   |  |  |  |  |  |  |  |
| 5.1         | Physical States:  | []Gas []Liquid [X]Solid  |  |  |  |  |  |  |
|             | Appearance and Odor:  | A crystalline solid  |  |  |  |  |  |  |
|             | pH:   | No data.   |  |  |  |  |  |  |
|             | Melting Point:  | No data.   |  |  |  |  |  |  |
|             | Boiling Point:  | No data.   |  |  |  |  |  |  |
|             | Flash Pt:   | No data.   |  |  |  |  |  |  |
|             | Evaporation Rate:   | No data.   |  |  |  |  |  |  |
|             | Flammability (solid, gas):  | No data available.   |  |  |  |  |  |  |
|             | Explosive Limits:   | LEL: No data. UEL: No data.  |  |  |  |  |  |  |
|             | Vapor Pressure (vs. Air or n  |  |  |  |  |  |  |  |
|             | Hg):  |  |  |  |  |  |  |  |
|             | Vapor Density (vs. Air = 1):  | No data.   |  |  |  |  |  |  |
|             |   |  |  |  |  |  |  |  |
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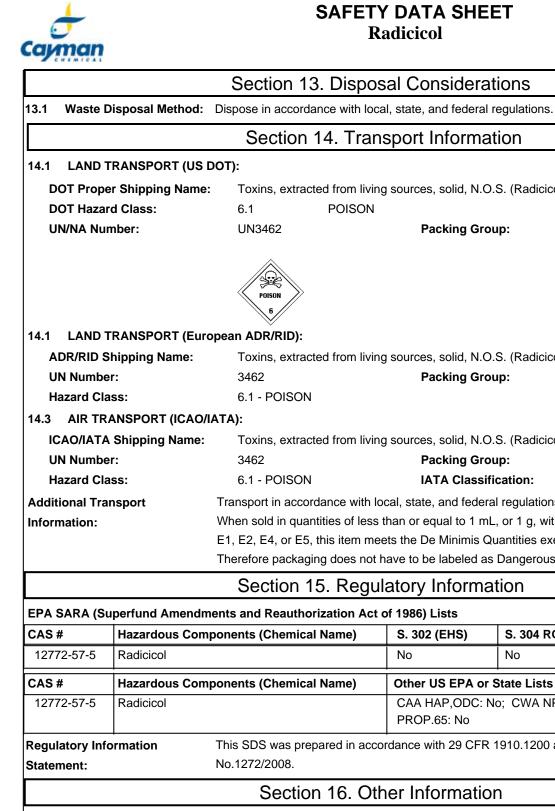
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|   |                          |   |  |                 |               |           |             | 0.            |         | 1011. 03/10/2013    |
|---|--------------------------|---|--|-----------------|---------------|-----------|-------------|---------------|---------|---------------------|
| Specific Gravity (Water =                     |                          |   |  |                 |               |           |             |               |         |                     |
|   | Solubility in Wa         | No data.  |  |                 |               |           |             |               |         |                     |
|   | Solubility Notes         | ~20 mg/ml in DMSO;  |  |                 |               |           |             |               |         |                     |
|   | Octanol/Water            | Partition   | No da  | ta.             |               |           |             |               |         |                     |
|   | Coefficient:             |   |  |                 |               |           |             |               |         |                     |
|   | Autoignition Pt          | :   | No da  | ta.             |               |           |             |               |         |                     |
|   | Decomposition            | Temperat  | ure: No da   | ta.             |               |           |             |               |         |                     |
|   | Viscosity:               | •   | No da  | ta.             |               |           |             |               |         |                     |
| 9.2   | Other Informatio         |   |  |                 |               |           |             |               |         |                     |
| 5.2   |                          |   | No do  | <b>to</b>       |               |           |             |               |         |                     |
| Percent Volatile:<br>Molecular Formula & Weig |                          |   | No data.<br>ght: C18H17ClO6 364.7  |                 |               |           |             |               |         |                     |
|   | Molecular Form           | iula & weig   |  |                 | 364.7         |           |             |               |         |                     |
|   |                          |   | Sectio   | <u>on 10. S</u> | Stability     | and F     | Reactiv     | rity          |         |                     |
| 10.1  | Reactivity:              |   | No data availa   | able.           |               |           |             |               |         |                     |
| 10.2  | Stability:               |   | Unstable [ ]   | Stable          | e[X]          |           |             |               |         |                     |
| 10.3  | Stability Note(s         | ):  | Stable if store  | d in accor      | dance with ir | nformatio | on listed o | n the product | insert. |                     |
|   | Polymerization           | -   | Stable if stored in accordance with information listed on the product insert.<br>Will occur [ ] Will not occur [ X ] |                 |               |           |             |               |         |                     |
| 10.4  | Conditions To A          |   | No data availa   | -               |               |           |             |               |         |                     |
|   |                          |   |  |                 |               |           |             |               |         |                     |
| 10.5  | Incompatibility          | - Materials   | strong oxidizi   | ng agents       |               |           |             |               |         |                     |
|   | To Avoid:                |   |  |                 |               |           |             |               |         |                     |
| 10.6  | Hazardous                |   | carbon dioxide   |                 |               |           |             |               |         |                     |
|   | Decomposition            | or  | carbon monoxide  |                 |               |           |             |               |         |                     |
|   | Byproducts:              |   |  |                 |               |           |             |               |         |                     |
|   |                          |   | Sectior  | 11. To          | oxicolog      | jical Ir  | nforma      | tion          |         |                     |
| 11.1  | Information on           | The toxicological effects of this product have not been thoroughly studied. |  |                 |               |           |             |               |         |                     |
|   | Toxicological Effects: R |   | Radicicol - Toxicity Data: Oral LD50 (mouse): 300 mg/kg; Subcutaneous TDLO (mouse): 10                               |                 |               |           |             |               |         |                     |
|   |                          |   | mg/kg/15D (intermittent);  |                 |               |           |             |               |         |                     |
|   |                          |   | Radicicol - Investigated as a drug.  |                 |               |           |             |               |         |                     |
|   | Effects:                 | J   | Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.                         |                 |               |           |             |               |         |                     |
|   | Lifects.                 |   | See actual entry in RTECS for complete information.  |                 |               |           |             |               |         |                     |
|   |                          |   | Radicicol RTE  | -               | -             |           |             |               |         |                     |
| CAS   | # Hazar                  | dous Com  | ponents (Che   | mical Nan       | ne)           |           | NTP         | IARC          | ACGIH   | OSHA                |
|   | 72-57-5 Radici           |   |  |                 |               |           | n.a.        | n.a.          | n.a.    | n.a.                |
|   |                          |   |  |                 |               |           |             | •             | 11.a.   | 11.a.               |
|   |                          |   | Sectio   | on 12. I        | Ecologic      | cal Inf   | ormati      | on            |         |                     |
| 12.1  | Toxicity:                |   | Avoid release into the environment.  |                 |               |           |             |               |         |                     |
|   |                          |   | Runoff from fire control or dilution water may cause pollution.  |                 |               |           |             |               |         |                     |
| 12.2  | Persistence and          | t   | No data availa   | able.           |               |           |             |               |         |                     |
| Degradability:                                |                          |   |  |                 |               |           |             |               |         |                     |
| 12.3 Bioaccumulative No data available.       |                          |   |  |                 |               |           |             |               |         |                     |
| Potential:                                    |                          |   |  |                 |               |           |             |               |         |                     |
| 10.4  |                          |   |  |                 |               |           |             |               |         |                     |
| 12.4  | Mobility in Soil:        |   | No data available.   |                 |               |           |             |               |         |                     |
| 12.5  | Results of PBT and vPvB  |   | No data available.   |                 |               |           |             |               |         |                     |
|   | assessment:              |   |  |                 |               |           |             |               |         |                     |
| 12.6  | Other adverse e          | No data availa  | able.  |                 |               |           |             |               |         |                     |
|   |                          |   |  |                 |               |           |             |               |         |                     |
|   |                          |   |  |                 |               |           |             |               |         |                     |
|   |                          |   |  |                 |               |           |             |               | Γ       | /ulti-region format |



Revision: 07/06/2018

Supersedes Revision: 09/18/2013



Section 14. Transport Information Toxins, extracted from living sources, solid, N.O.S. (Radicicol) Packing Group: Ш Toxins, extracted from living sources, solid, N.O.S. (Radicicol) Packing Group: Ш

Toxins, extracted from living sources, solid, N.O.S. (Radicicol) **Packing Group:** IATA Classification: 6.1 Transport in accordance with local, state, and federal regulations. When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.

# Section 15. Regulatory Information

| -                                    | 1             | nents and Reauthorization Act  | -   |           | I            |  |  |
|--------------------------------------|---------------|--|---|-----------|--------------|--|--|
| CAS #                                | Hazardous Com | ponents (Chemical Name)  | S. 302 (EHS)  | S. 304 RQ | S. 313 (TRI) |  |  |
| 12772-57-5                           | Radicicol     |  | No  | No        | No           |  |  |
| CAS #                                | Hazardous Com | ponents (Chemical Name)  | Other US EPA or State Lists                                 |           |              |  |  |
| 12772-57-5                           | Radicicol     |  | CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA<br>PROP.65: No |           |              |  |  |
| Regulatory Information<br>Statement: |               | This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.  |   |           |              |  |  |
|                                      |               | Section 16. Oth  | ner Informatio  | on        |              |  |  |
| Revision Date:                       |               | 07/06/2018   |   |           |              |  |  |
| Additional Information About         |               | No data available.   |   |           |              |  |  |
| This Product:                        |               |  |   |           |              |  |  |
| Company Policy or Disclaimer:        |               | DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. |   |           |              |  |  |

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