

# MATERIAL SAFETY DATA SHEET

Product Name: Rifampin  
MSDS #: L-MSDS 7118 – 3

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## Section 1: Product and Company Information

**Product Name:** Rifampin  
**Product Code:** 7115-60  
**Manufacturer:** TREK Diagnostic Systems  
982 Keynote Circle, Suite 6  
Cleveland, OH 44131  
**European:** Trek Diagnostic Systems  
Imberhorne Lane, East Grinstead  
West Sussex, UK, RH19 1QX UK  
Telephone No. 44-1342-318777  
**Phone Number:** (800) 871-8909  
**Fax:** (216) 351-5456  
**24-hour Emergency:** (800) 642-7029

## Section 2: Composition and Ingredient Information

| <u>Common Name</u> | <u>Chemical Name</u>                              | <u>CAS No.</u> | <u>EINECS/ELINCS</u> | <u>Wt. %</u> | <u>Symbol</u> | <u>R-phrases</u> |
|--------------------|---|----------------|----------------------|--------------|---------------|------------------|
| Rifampin           | 3-(4-methylpiperazinyl)imino methyl)-rifamycin SV | 13292-46-1     | 236-312-0            | 0.3          | Xn            | R22              |
| Cyclodextrin       | Beta-cycloamylose                                 | 7585-39-9      | 231-493-2            | 99.7         | Xn            | R22              |

\*See Section 16 for the full text of the R-phrases declared above.

**Note:** See Section 8 of this MSDS for exposure limit data for these ingredients.

## Section 3: Hazards Identification

**Appearance, Color and Odor:** Solid, orange, crystalline, caked powder (freeze dried)

**Primary Route(s) of Exposure:** Inhalation, Ingestion, Skin, Eyes

**Potential Health Effects:** **ACUTE (short term):** see Section 8 for exposure controls

**Inhalation:** May cause irritation.

**Ingestion:** May be harmful

**Skin:** Frequent or prolonged contact may cause irritation.

**Eyes:** May cause conjunctivitis based on Rifampin content.

**CHRONIC (long term):** see Section 11 for additional toxicological data

Target organs – liver, kidneys, blood

Rifampin has been identified to cause malformation in the fetus affecting the blood, liver and lung tumors.

**Medical Conditions** None known.

**Aggravated by Exposure:**

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## Section 4: First Aid Measures

- Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.
- Eye Contact:** Rinse immediately with plenty of water, for at least 15 minutes, and seek medical advice.
- Skin Contact:** Wash immediately with plenty of water, for at least 15 minutes. If symptoms arise, seek medical advice.
- Ingestion:** Seek medical advice immediately and show the container or the MSDS.

## Section 5: Fire Fighting Measures

- Flash Point and Method (°F):** Not considered to be a fire hazard.
- Flammability Limits (%):** Not applicable
- Auto Ignition Temperature (°F):** Not applicable
- Extinguishing Media:** Use appropriate extinguishing media for surrounding material.
- Unusual Fire and Explosion Hazards:** Emits toxic fumes under fire conditions.
- Fire Fighting Instructions:** Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin.
- Hazardous Combustion Products:** Carbon monoxide, carbon dioxide, nitrogen oxides

## Section 6: Accidental Release Measures

- Air Release:** Avoid creating dust clouds.
- Land Spill:** While wearing protective equipment, sweep up and place in a container for proper disposal.
- Water Spill:** Completely soluble in water.

## Section 7: Handling and Storage

- Storage Temperature:** For quality assurance purposes, store between 2-8 ° C
- Storage Pressure:** Not applicable
- General:** Store in a cool, dry place. Use a chemical fume hood to control dust.

## Section 8: Exposure Controls and Personal Protection

| <b><u>Ingredient</u></b> | <b><u>ACGIH TLV<br/>(8-hr. TWA)<br/>(mg/m<sup>3</sup>)</u></b> | <b><u>U.S. OSHA PEL<br/>(8-hr. TWA)<br/>(mg/m<sup>3</sup>)</u></b> | <b><u>UK OEL<br/>(8-hr. TWA)<br/>(mg/m<sup>3</sup>)</u></b> |
|--------------------------|--|--|---|
| Rifampin                 | Not established  | Not established  | Not established   |
| Cyclodextrin             | Not established  | Not established  | Not established   |

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### Engineering Controls:

Provide general and/or local exhaust ventilation to control airborne concentrations below the recommended exposure guideline.

### Personal Protection:

#### **Respiratory**

Use a NIOSH/MSHA approved respirator to protect from dust exposures.

#### **Protection:**

#### **Skin Protection:**

Chemical resistant gloves and body-covering clothing to prevent contact. Nitrile or neoprene gloves recommended.

#### **Eye Protection:**

Safety goggles

#### Other:

None

## Section 9: Physical and Chemical Properties

|  |  |   |                    |
|--|--|---|--------------------|
| <b><u>Physical State:</u></b>                                | Solid  | <b><u>Vapor Pressure:</u></b><br><b><u>(mm Hg @ 20°C)</u></b>                         | Not applicable     |
| <b><u>Appearance:</u></b>                                    | Orange, crystalline, caked powder (freeze dried) | <b><u>Vapor Density:</u></b><br><b><u>(Air = 1)</u></b>                               | Not applicable     |
| <b><u>pH:</u></b>  | 5.0 – 6.5 when rehydrated with 25 ml of water.   | <b><u>Solubility in Water:</u></b>  | Completely soluble |
| <b><u>Specific Gravity:</u></b><br><b><u>(water = 1)</u></b> | Not applicable                                   | <b><u>Water / Oil</u></b><br><b><u>distribution</u></b><br><b><u>coefficient:</u></b> | Not applicable     |
| <b><u>Boiling Point:</u></b>                                 | Not applicable                                   | <b><u>Odour Type:</u></b>   | Odorless.          |
| <b><u>Freezing Point:</u></b>                                | Not applicable                                   | <b><u>Evaporation Rate:</u></b><br><b><u>(n-Butyl Acetate = 1)</u></b>                | Not applicable     |
| <b><u>Viscosity:</u></b>                                     | Not applicable                                   | <b><u>Other:</u></b>  | None               |

## Section 10: Stability and Reactivity

|  |  |
|--|--|
| <b><u>Stability:</u></b>   | Stable   |
| <b><u>Incompatible Materials and</u></b><br><b><u>Conditions to Avoid:</u></b> | Strong oxidizing agents. Light can affect quality assurance. |
| <b><u>Hazardous Decomposition</u></b><br><b><u>Products:</u></b>               | Carbon monoxide, carbon dioxide, nitrogen oxides.            |
| <b><u>Hazardous Polymerization:</u></b>  | Will not occur   |
| <b><u>Other Reactivity Concerns:</u></b>                                       | None   |

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## Section 11: Toxicological Information

**Carcinogenicity:** The table below indicates whether or not each agency has listed each ingredient as a carcinogen.

| <u>Ingredient</u> | <u>ACGIH</u> | <u>IARC</u> | <u>NTP</u> | <u>OSHA</u> |
|-------------------|--------------|-------------|------------|-------------|
| Rifampin          | Not listed   | 3           | Not listed | Not listed  |
| Cyclodextrin      | Not listed   | Not listed  | Not listed | Not listed  |

| <u>Ingredient</u> | <u>LD<sub>50</sub> Oral</u><br>(mg/kg) | <u>LD<sub>50</sub> Dermal</u><br>(mg/kg) | <u>LC<sub>50</sub> Inhalation</u><br>(mg/m <sup>3</sup> , 4 hrs.) |
|-------------------|--|--|---|
| Rifampin          | 1570 (rat)<br>500 (mouse)              | Not available                            | Not available   |
| Cyclodextrin      | 18800 (rat)                            | Not available                            | Not available   |

## Section 12: Ecological Information

The ecological effects have not been thoroughly investigated, but currently none have been identified.

## Section 13: Disposal Considerations

**Waste Disposal Method:** Dispose of in accordance with local, state and federal regulations.

## Section 14: Transport Information

|   |               |
|---|---------------|
| <b><u>DOT Proper Shipping Name:</u></b>           | Not regulated |
| <b><u>DOT Hazard Classification:</u></b> Primary: | Not regulated |
| Secondary:  |               |
| <b><u>DOT Special Provisions:</u></b>             | None          |
| <b><u>DOT Packaging Exceptions:</u></b>           | None          |
| <b><u>DOT Non-bulk Packaging:</u></b>             | None          |
| <b><u>DOT Bulk Packaging:</u></b>                 | None          |
| <b><u>IMDG Proper Shipping Name:</u></b>          | Not regulated |
| <b><u>IATA Proper Shipping Name:</u></b>          | Not regulated |

## Section 15: Regulatory Information

**TSCA Status:** Exempt under TSCA.

**California Proposition 65:** None

**SARA Title III:**

Sec. 302/304: None

Sec. 313: None

**Right to Know:** None

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### EC Directive:

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.



Xn Harmful

R22 Harmful if swallowed

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/39 Wear suitable protective clothing and eye/face protection.

### Other:

None

### **Section 16: Other Information**

#### HMIS and NFPA Hazard Rating:

| Category     | HMIS | NFPA |
|--------------|------|------|
| Acute Health | 1    | 1    |
| Flammability | 0    | 0    |
| Reactivity   | 0    | 0    |

#### Full Text of R-phrases appearing in Section 2:

R22 – Harmful if swallowed

#### Text of classifications appearing in Section 2:

Xn - Harmful

#### Preparation Information:

##### Prepared by:

LEHDER Environmental Services Limited

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704 Mara Street, Suite 210  
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(519) 336-4101

##### Preparation date:

September 23, 1999. Revised to reflect new TREK address November 7, 2002. Revised and Updated July 18, 2003 for regulatory information.

##### Disclaimer:

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