

MATERIAL SAFETY DATA SHEET

Product Name: Rifampin
MSDS #: L-MSDS 7118 – 4

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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
USA

European: TREK Diagnostic Systems
Unit 17-19,
Birches Industrial Estate
East Grinstead
West Sussex, RH19 1XZ
UK

Phone Number: (800) 871-8909

Fax: (216) 351-5456

24-hour Emergency: (800) 642-7029

Telephone No. 44-1342-318777

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)iminomethyl)-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 Aggravated by Exposure: None known.

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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

<u>Ingredient</u>	<u>ACGIH TLV (8-hr. TWA) (mg/m³)</u>	<u>U.S. OSHA PEL (8-hr. TWA) (mg/m³)</u>	<u>UK OEL (8-hr. TWA) (mg/m³)</u>
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 Protection:

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

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

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

Section 10: Stability and Reactivity

<u>Stability:</u>	Stable
<u>Incompatible Materials and Conditions to Avoid:</u>	Strong oxidizing agents. Light can affect quality assurance.
<u>Hazardous Decomposition Products:</u>	Carbon monoxide, carbon dioxide, nitrogen oxides.
<u>Hazardous Polymerization:</u>	Will not occur
<u>Other Reactivity Concerns:</u>	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>LD₅₀ Oral</u> <u>(mg/kg)</u>	<u>LD₅₀ Dermal</u> <u>(mg/kg)</u>	<u>LC₅₀ Inhalation</u> <u>(mg/m³, 4 hrs.)</u>
Rifampin	1570 (rat) 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

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

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Preparation date:

September 23, 1999. Revised November 7, 2002 by TREK to update TREK USA address. Revised July 18, 2003 by TREK to update regulatory information. Revised August 14, 2010 by TREK to update TREK UK address.

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