1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Name  Rifaximin-d6

Catalogue #  R509502
Company  Toronto Research Chemicals
Telephone  +14166659696
FAX  +14166654439
Emergency#  +14166659696
Email  orders@trc-canada.com

2. HAZARDS IDENTIFICATION

WHMIS Classification
D2A Very Toxic Material Causing Other Toxic Effects Teratogen

HMIS Classification
Health hazard:  1
Chronic Health Hazard:  *
Flammability:  0
Physical hazards:  0

Potential Health Effects
Inhalation  May be harmful if inhaled. May cause respiratory tract irritation.
Skin  May be harmful if absorbed through skin. May cause skin irritation.
Eyes  May cause eye irritation.
Ingestion  May be harmful if swallowed.

GHS Classification
Acute toxicity, Oral (Category 5)
Reproductive toxicity (Category 2)
GHS Label elements, including precautionary statements
Signal word  Warning
Hazard statements
H303 May be harmful if swallowed.
H361 Suspected of damaging fertility or the unborn child
Precautionary statements
P201 Obtain special instructions prior to use.
P308/P313 If exposed or concerned: Get medical advice/attention.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.

GHS Label Pictogram

Toronto Research Chemicals - R509502
3. COMPOSITION/INFORMATION ON INGREDIENTS

Molecular Formula: \( \text{C}_{43}\text{H}_{45}\text{D}_6\text{N}_3\text{O}_{11} \)

Molecular Weight: 791.92

CAS Registry #: 4-Deoxy-4’-methylypyridol[1’,2’-1,2]imidazo[5,4-c]rifamycin SV-d6; Rifamycin L 105-d6; Rifaxidin-d6; L-105-d6; Fatroximin-d6; Normix-d6; Rifacol-d6; Xifaxan-d6;

EC#: 79157-97-3

Synonyms:

4. FIRST AID MEASURES

General Advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Use personal protective equipment. Avoid dust or aerosol formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Environmental precautions
Do not let product enter drains.

Methods and materials for containment and cleaning up
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust or aerosols. Provide appropriate exhaust ventilation at places where dust/aerosol is formed. Normal measures for preventative fire protection.

Conditions for safe storage
Keep container tightly close in a dry and well-ventilated place. Store at -20°C.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection
Use NIOSH (US) or CEN (EU) tested and approved particle/vapour respirators.

Hand protection
Handle with appropriate gloves. Gloves must be inspected prior to use.

Eye protection
NIOSH (US) or CEN (EU) approved safety glasses, googles or face shield, as appropriate.

Skin and body protection
Choose body protection according to the amount and concentration of the dangerous substance at the specific workplace.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Red solid

Safety data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling point</td>
<td>N/A</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>N/A</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>N/A</td>
</tr>
<tr>
<td>Density</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting point</td>
<td>208-210°C</td>
</tr>
<tr>
<td>Flash point</td>
<td>N/A</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>N/A</td>
</tr>
<tr>
<td>Water solubility</td>
<td>N/A</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

Conditions to avoid
no data available

Materials to avoid
Strong oxidizing agents.

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions: carbon oxides, nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity
LD50 (oral - rat) > 2 g/kg
LD50 (oral - dog) > 2 g/kg

Irritation and corrosion
no data available

Sensitization
no data available

Carcinogenicity
IARC: To the best of our knowledge, this compound has not been identified as a possible or potential human carcinogen by IARC.

Toronto Research Chemicals - R509502
Reproductive toxicity/Teratogenicity
Laboratory results have shown a teratogenic effect in animal models.

Potential health effects
- Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
- Ingestion: May be harmful if swallowed.
- Skin: May be harmful if absorbed through skin. Causes skin irritation.
- Eyes: May cause eye irritation.

Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information
RTECS: KD1576000

12. ECOLOGICAL INFORMATION

Toxicity
no data available

Persistence and degradability
no data available

Bioaccumulative potential
no data available

Mobility in soil
no data available

PBT and vPvB assessment
no data available

Other adverse effects
no data available

13. DISPOSAL CONSIDERATIONS

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)/IMDG/IATA
Not dangerous goods

15. REGULATORY INFORMATION

DSL Status
Product is not on the Canadian DSL or NDSL list.

WHMIS Classification
D2A Very Toxic Material Causing Other Toxic Effects Teratogen

16. OTHER INFORMATION

Further information
Copyright 2010 Toronto Research Chemicals Inc. Copies may be made for internal use only. The above information is believed to be correct to the best of our knowledge, but is not to be deemed as all-inclusive and is to be only used as a guide. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Please take all due care when handling this product.

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