

Material Safety Data Sheet

Date Printed: 17/MAY/2005

Date Updated: 15/MAR/2004

Version 1.3

According to 91/155/EEC

Classified as Hazardous according to the criteria of EU Annex 1 and NOHSC.

1 - Product and Company Information

Product Name	RIFAMPICIN
Product Number	83907
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2 - Composition/Information on Ingredients

Product Name	CAS #	EC no	Annex I Index Number
RIFAMPICIN CRYSTALLINE	13292-46-1	236-312-0	None

Formula	C43H58N4O12
Molecular Weight	823 AMU
Synonyms	Archidyn * Arficin * Dione 21-acetate * L-5103 * 3-(4-Methylpiperazinyliminomethyl)-rifamycin SV * 8-(4-Methylpiperazinyliminomethyl) rifamycin SV * 8-(((4-Methyl-1-piperazinyl)imino)methyl)rifamycin SV * NSC 113926 * R/AMP * Rifa * Rifadin * Rifadine * Rifagen * Rifaldazin * Rifaldazine * Rifampicin * Rifampicine (French) * Rifampicin SV * Rifampicinum * Rifampin * Rifamycin AMP * Rifamycin, 3-(((4-methyl-1-piperazinyl)imino)methyl)- * Rifaprodin * Rifinah * Rifobac * Rifoldin * Rifoldine * Riforal * Rimactan * Rimactane * Rimactazid * Rimactizid * Sinerdol * Tubocin

3 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Harmful if swallowed. Irritating to eyes, respiratory system and skin.

4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious

amounts of water.

AFTER EYE CONTACT

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

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.

7 - Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed.
Store at 2-8°C

SPECIAL REQUIREMENTS: Light and moisture sensitive. Store under inert gas.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Government approved respirator.
Hand Protection: Compatible chemical-resistant gloves.
Eye Protection: Chemical safety goggles.

9 - Physical and Chemical Properties

1570 mg/kg

LD50
Intraperitoneal
Rat
511 MG/KG

LD50
Subcutaneous
Rat
534 MG/KG

LD50
Oral
Mouse
500 mg/kg

LD50
Intraperitoneal
Mouse
416 MG/KG

LD50
Subcutaneous
Mouse
621 MG/KG

LD50
Intravenous
Mouse
260 MG/KG

LD50
Oral
Rabbit
2120 mg/kg

LD50
Intraperitoneal
Guinea pig
639 MG/KG

IRRITATION DATA

Eyes Inhalation Skin
Remarks: Moderate irritation effect

SIGNS AND SYMPTOMS OF EXPOSURE

Exposure can cause anorexia, nausea, vomiting, and influenza-like syndrome. Blood effects. Other symptoms of exposure may include drowsiness, allergic rhinitis, conjunctivitis, and skin rash. Exposure to and/or consumption of alcohol may increase toxic effects.

ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.
Skin Absorption: May be harmful if absorbed through the skin.
Eye Contact: Causes eye irritation.
Inhalation: Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Ingestion: Harmful if swallowed.

TARGET ORGAN INFORMATION

Liver. Kidneys. Blood.

CHRONIC EXPOSURE - CARCINOGEN

Result: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

Mouse

Route of Application: Oral

Exposure Time: 60W

Result: Tumorigenic:Neoplastic by RTECS criteria. Liver:Tumors.

IARC CARCINOGEN LIST

Rating: Group 3

CHRONIC EXPOSURE - MUTAGEN

Human

250 MG/L

Cell Type: HeLa cell

DNA inhibition

Human

100 MG/L

Cell Type: lymphocyte

DNA inhibition

Human

150 MG/L

Cell Type: HeLa cell

Other mutation test systems

Human

250 MG/L

Cell Type: HeLa cell

Other mutation test systems

Human

150 MG/L

Cell Type: Other cell types

Other mutation test systems

Human

25 MG/L

Cell Type: lymphocyte

Cytogenetic analysis

Human

78 MG/L

Cell Type: Other cell types

Cytogenetic analysis

Rat

100 MG/L

Cell Type: liver

Other mutation test systems

Mouse

5 MG/KG

Cell Type: Ascites tumor

Host-mediated assay

CHRONIC EXPOSURE - TERATOGEN

Species: Rat
Dose: 1400 MG/KG
Route of Application: Oral
Exposure Time: (4-10D PREG)
Result: Specific Developmental Abnormalities: Craniofacial (including nose and tongue). Specific Developmental Abnormalities: Musculoskeletal system.

Species: Rat
Dose: 4 GM/KG
Route of Application: Oral
Exposure Time: (2-21D PREG)
Result: Specific Developmental Abnormalities: Other developmental abnormalities.

CHRONIC EXPOSURE - REPRODUCTIVE HAZARD

Result: May cause reproductive disorders.

Species: Rat
Dose: 3200 MG/KG
Route of Application: Oral
Exposure Time: (1-16D PREG)
Result: Effects on Fertility: Litter size (e.g.; # fetuses per litter; measured before birth).

Species: Rat
Dose: 800 MG/KG
Route of Application: Oral
Exposure Time: (9-12D PREG)
Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Specific Developmental Abnormalities: Central nervous system. Specific Developmental Abnormalities: Urogenital system.

Species: Rat
Dose: 6100 UG/M3/24H
Route of Application: Inhalation
Exposure Time: (1-22D PREG)
Result: Effects on Newborn: Physical.

Species: Mouse
Dose: 2200 MG/KG
Route of Application: Oral
Exposure Time: (6-16D PREG)
Result: Effects on Fertility: Litter size (e.g.; # fetuses per litter; measured before birth). Specific Developmental Abnormalities: Craniofacial (including nose and tongue). Specific Developmental Abnormalities: Musculoskeletal system.

Species: Rabbit
Dose: 2600 MG/KG
Route of Application: Oral
Exposure Time: (6-18D PREG)
Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on Fertility: Litter size (e.g.; # fetuses per litter; measured before birth).

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL

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.

14 - Transport Information

RID/ADR

Non-hazardous for road transport.

IMDG

Non-hazardous for sea transport.

IATA

Non-hazardous for air transport.

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: Xn

Harmful.

R-PHRASES: 22 36/37/38

Harmful if swallowed. Irritating to eyes, respiratory system and skin.

S-PHRASES: 26 36

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

16 - Other Information

WARRANTY

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. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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