



Material Safety Data Sheet

Date Printed: 08/11/2005 Date Updated: 10/27/2004

Version 1,60

Section 1 - Product and Company Information

Product Name Product Number

Brand

Doxycycline hyclate D9891

Sigma Chemical

Company Street Address City, State, Zip, Country Sigma-Aldrich 3050 Spruce Street

SAINT LOUIS, MO 63103 US

Technical Phone:

314 771 5765 800 325 5052

Emergency Phone:

414 273 3850 Ext, 5996

EC no

Section 2 - Composition/Information on Ingredient

Substance Name

CAS#

SARA 313 No

Annex I Index Number

DOXYCYCLINE HYCLATE

24390-14-5

Formula

C22H24N2O8 · HCI · 0.5H2O · 0.5C2H6O

Synonyms

Biocamycin, Doxigalumicina, Doxycycline hyclate, Doxycycline hydrochloride, Doxy-II, Doxylablinen, Ecodox, Hydramycin, Liomycin, Mespafin, Midoxin, Nivocilin, Novadox, Retens, Roximycin,

Samecin, Tanamicin, Tecacin, Tetradox, Vibradox, Vibramycin hyclate, Vibra-tabs

Section 3 - Hazards Identification

Emergency Overview

Harmful.

Harmful if swallowed.

Calif, Prop. 65 reproductive hazard, Target organ(s): Teeth, Bones,

HMIS Rating

Health: 2*

Flammability: 0

Reactivity: 1

NFPA Rating

Health: 2

Flammability: 0

Reactivity: 1

*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure

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

Inhalation Exposure

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

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

Eye Exposure

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers, Call a physician,

Section 5 - Fire Fighting Measures

Autolgnition Temp:

ExtInguishing Media

Suitable

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

Protective Equipment

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

Specific Hazard(s)

Emits toxic fumes under fire conditions,

Section 6 - Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill

Evacuate area.

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.

Section 7 - Handling and Storage

Handling

User Exposure

Do not breathe dust, Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure,

Storage

Sultable

Keep tightly closed. Store at 2-8°C

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment

Respiratory

Government approved respirator,

Compatible chemical-resistant gloves.

Chemical safety goggles.

Safety and Environmenta

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General Hygiene Measures

Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Physical State Color Solid Yellow Molecular Weight: 512.94 AMU N/A N/A **BP/BP Range** N/A MP/MP Range Freezing Point N/A Vapor Pressure N/A Vapor Density N/A Saturated Vapor Conc. N/A SG/Density N/A **Bulk Density** N/A Odor Threshold N/A Volatile% N/A **VOC Content** N/A Water Content N/A Solvent Content N/A **Evaporation Rate** N/A Viscosity N/A Partition Coefficient N/A Decomposition Temp. N/A Flash Point °F N/A Flash Point °C N/A **Explosion Limits** N/A Flammability N/A Autoignition Temp N/A Solubility N/A

Section 10 - Stability and Reactivity

Stability

Stable

Stable.

N/A = not avallable

Conditions of Instability

May decompose on exposure to light.

Materials to Avoid

Strong oxidizing agents,

Hazardous Decomposition Products

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide, Nitrogen oxides, Hydrogen chloride gas.

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Form

Powder

Hazardous Polymerization

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact

Causes skin irritation.

Skin Absorption

Harmful if absorbed through skin.

Eye Contact

Causes eve irritation.

Inhalation

Harmful if inhaled, Material is irritating to mucous membranes and upper respiratory tract.

Ingestion

Harmful if swallowed

Target Organ(s) or System(s)

Teeth. Bones. Nerves, Liver, Heart.

Signs and Symptoms of Exposure

Can cause phototoxic reactions, gastrointeslinal disturbances, turn teeth yellow and reduce mineralization. Can cause CNS depression. Exposure can cause: Narcotic effect, Damage to the heart.

RTECS Number: N/AQI8925000

Chronic Exposure - Reproductive Hazard

Result: Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

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.

Section 14 - Transport Information

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

EU Additional Classification

Symbol of Danger: Xn Indication of Danger

Risk Statements

Harmful.

R: 22

Harmful if swallowed. Safety Statements

S: 26

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

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US Classification and Label Text

Indication of Danger

Harmful.

Risk Statements

Harmful if swallowed.

Safety Statements

Do not breathe dust. Wear suitable protective clothing. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

US Statements

Calif, Prop. 65 reproductive hazard, Target organ(s): Teeth, Bones,

United States Regulatory Information

SARA Listed: No

United States - State Regulatory Information

California Prop - 65

This product is or contains chemical(s) known to the state of California to cause developmental toxicity.

Canada Regulatory Information

WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: No

Section 16 - Other Information

For R&D use only. Not for drug, household or other uses.

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 stip 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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