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IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Pfizer Inc
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Pfizer Pharmaceuticals Group
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Emergency telephone number: Emergency telephone number:

Material Name: Doxycycline hyclate capsules

Trade Name: Vibramycin(R)
Chemical Family: Mixture

Intended Use: Pharmaceutical product used as antibiotic agent

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

1142414040			
Ingredient	CAS Number	EU EINECS List	%
Doxycycline hyclate	24390-14-5	Not listed	50 or 100 mg ***
Magnesium stearate/sodium lauryl sulfate blend	MIXTURE	Not listed	*
Microcrystalline cellulose	9004-34-6	232-674-9	*

Additional Information: * Proprietary

*** per tablet/capsule/lozenge/suppository

Ingredient(s) indicated as hazardous have been assessed under standards for workplace

safetv.

3. HAZARDS IDENTIFICATION

Appearance: 50 mg: White and light blue capsules; 100 mg: Light blue capsules

Signal Word: WARNING

Statement of Hazard: Infants of mothers exposed during pregnancy may develop discoloration of the teeth

May cause liver toxicity

Additional Hazard Information:

Short Term: May cause allergic reactions in susceptible individuals. Accidental ingestion may cause effects

similar to those seen in clinical use.

Known Clinical Effects: May cause permanent discoloration of teeth if used during tooth development. May cause

effects similar to those generally seen in clinical use of tetracyclines including gastrointestinal

irritation, nausea, vomiting, and diarrhea. Photosensitivity has been reported in some

individuals taking tetracyclines.

EU Indication of danger: Toxic to reproduction: Category 1

EU Hazard Symbols:



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EU Risk Phrases:

R61 - May cause harm to the unborn child.

Note: This document has been prepared in accordance with standards for workplace safety, which

require the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases.

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Your needs may vary depending upon the potential for exposure in your workplace.

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with water for at least 15 minutes. If irritation occurs or persists, get

medical attention.

Skin Contact: Wash skin with soap and water. Remove contaminated clothing and shoes. If irritation occurs

or persists, get medical attention.

Ingestion: Get medical attention immediately. Do not induce vomiting unless directed by medical

personnel. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Get medical attention

immediately.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use carbon dioxide, dry chemical, or water spray.

Hazardous Combustion Products: May emit toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride

and other chlorine-containing compounds.

Fire Fighting Procedures: Wear approved positive pressure, self-contained breathing apparatus and full protective turn

out gear. Evacuate area and fight fire from a safe distance.

Fire / Explosion Hazards: Not applicable

6. ACCIDENTAL RELEASE MEASURES

Health and Safety Precautions: Personnel involved in clean-up should wear appropriate personal protective equipment (see

Section 8). Minimize exposure.

Measures for Cleaning / Collecting: Contain the source of spill if it is safe to do so. Collect spilled material by a method that

controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of

dry solids. Clean spill area thoroughly.

Measures for Environmental

Protections:

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to

avoid environmental release.

Additional Consideration for Large

Spills:

Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

7. HANDLING AND STORAGE

General Handling: IF TABLETS OR CAPSULES ARE CRUSHED AND/OR BROKEN, AVOID BREATHING

DUST AND AVOID CONTACT WITH EYES, SKIN AND CLOTHING. Use adequate

ventilation.

Storage Conditions: Keep container tightly closed when not in use. Store out of direct sunlight in a well ventilated

area at room temperature.

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Storage Temperature: 15 - 30 °C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Doxycycline hyclate

Pfizer OEL TWA-8 Hr: 0.25 mg/m³

Microcrystalline cellulose

OSHA - Final PELS - TWAs: = 15 mg/m³ TWA total

= 5 mg/m³ TWA

ACGIH Threshold Limit Value (TWA) = 10 mg/m³ TWA Australia TWA = 10 mg/m³ TWA

The exposure limit(s) listed for solid components are only relevant if dust may be generated.

Analytical Method: Analytical method available for Doxycycline. Contact Pfizer Inc for further information.

Engineering Controls: General room ventilation is adequate unless the process generates dust, mist or fumes.

Personal Protective Equipment:

Hands: Wear protective gloves when working with large quantities. Individuals with known sensitivity

should wear protective gloves to avoid skin contact.

Eyes: Not required for the normal use of this product. Wear safety glasses or goggles if eye contact

is possible.

Skin: Wear protective clothing when working with large quantities. Individuals with known sensitivity

should wear long sleeves to avoid skin contact. Wash hands and arms thoroughly after

handling this material.

Respiratory protection: If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate

respirator with a protection factor sufficient to control exposures to below the OEL.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Capsule Color: Blue or blue/white

Odor: Odorless Molecular Formula: Mixture

Molecular Weight: Mixture

10. STABILITY AND REACTIVITY

Stability:StableConditions to Avoid:None knownIncompatible Materials:Strong oxidizers

Hazardous Decomposition Products: No data available See Section 5 - under Hazardous combustion products.

Polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

General Information: The information included in this section describes the potential hazards of the individual

ingredients.

Acute Toxicity: (Species, Route, End Point, Dose)

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Microcrystalline cellulose

Rat Oral LD50 > 5000 mg/kg Rabbit Dermal LD50 > 2000 mg/kg

Doxycycline hyclate

Mouse Oral LD50 1900 mg/kg (hydrochloride)
Rat Oral LD50 > 2000 mg/kg (hydrochloride)
Rat Intravenous LD50 228 mg/kg (hydrochloride)

Rat (weanling) Intraperitoneal LD50 262 mg/kg (hydrochloride)

Acute Toxicity Comments: A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable

at the highest dose used in the test.

Inhalation Acute ToxicityTetracyclines are known to cause local irritation upon intramuscular and intravenous

administration. The potential for irritation should be considered.

Ingestion Acute Toxicity See Acute toxicity table.

<u>Irritation / Sensitization: (Study Type, Species, Severity)</u>

Microcrystalline cellulose

Skin Irritation Rabbit Non-irritating Eye Irritation Rabbit Non-irritating

Eye Irritation / Sensitization Tetracyclines are known to cause local irritation upon intramuscular and intravenous

administration. The potential for irritation should be considered.

Skin Irritation / Sensitization Tetracyclines are known to cause local irritation upon intramuscular and intravenous

administration. The potential for irritation should be considered. Photosensitivity manifested

by an exaggerated sunburn reaction has been observed in some individuals taking

tetracyclines.

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Doxycycline hyclate

30 Day(s) Rat Oral 500 mg/kg NOAEL None identified 18 Month(s) Rat Oral 500 mg/kg/day NOAEL None identified

1 Year(s) Dog Oral < 10 mg/kg/day NOEL Liver

Subchronic Effects Rats administered doses of doxycycline hydrochloride up to 500 mg/kg/day for 30 days showed

no toxic effects.

Chronic Toxicity Chronic toxicity of doxycycline was evaluated in rats at oral doses up to 500 mg/kg/day for 18

months. Findings revealed no adverse effects on growth, food consumption, or survival. Yellow ultraviolet fluorescence of bone, teeth and/or kidneys was seen in rats at all levels. Chronic studies in dogs at oral doses up to 100 mg/kg/day for one year showed some functional and histopathological changes in the liver. However, effects were reversible after

cessation of exposure to the material.

Chronic Effects/Carcinogenicity No data available

Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

Doxycycline hyclate

Reproductive & Fertility-Females Rat Oral 250 mg/kg/day NOEL No effects at maximum dose Embryo / Fetal Development Monkey Oral 50 mg/kg/day NOEL No effects at maximum dose

Reproductive Effects Fertility studies of doxycycline in female rats at oral doses up to 250 mg/kg/day showed no

adverse effects.

Teratogenicity No teratogenic effects were observed in monkeys at oral doses of doxycycline ranging from 1

to 50 mg/kg/day. Tetracyclines as a class are capable of crossing the placenta and causing

permanent discoloration of the teeth. Liver Reproductive system

Mutagenicity

No data available however, positive results in in vitro mammalian cell assays have been

reported for related antibiotics.

Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

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At increase risk from exposure: Individuals who have shown hypersensitivity to this material or other materials in its chemical

class and individuals with liver and/or kidney dysfunction or impairment may be more

susceptible to toxicity in cases of overexposure.

Additional Information: FDA PREGNANCY CATEGORY D. Positive evidence of human fetal risk from marketing

experience or human studies.

12. ECOLOGICAL INFORMATION

Environmental Overview: The environmental characteristics of this material have not been fully evaluated. Releases to

the environment should be avoided.

13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of waste in accordance with all applicable laws and regulations.

14. TRANSPORT INFORMATION

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

15. REGULATORY INFORMATION

EU Symbol:

EU Indication of danger: Toxic to reproduction: Category 1

EU Risk Phrases:

R61 - May cause harm to the unborn child.

EU Safety Phrases:

S53 - Avoid exposure - obtain special instructions before use.

OSHA Label:

WARNING

Infants of mothers exposed during pregnancy may develop discoloration of the teeth May cause liver toxicity

Canada - WHMIS: Classifications

WHMIS hazard class:

Class D, Division 2, Subdivision A



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Doxycycline hyclate

California Proposition 65 developmental toxicity, initial date 10/1/91 (internal use)

Australia (AICS): Present

Microcrystalline cellulose

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

EU EINECS List

XU

Present
232-674-9

16. OTHER INFORMATION

Reasons for Revision: Updated Section 2 - Composition / Information on Ingredients. Updated Section 3 - Hazard

Identification. Updated Section 5 - Fire Fighting Measures. Updated Section 6 - Accidental Release Measures. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 10 - Stability and Reactivity. Updated Section 11 - Toxicology Information. Updated Section 13 - Disposal Considerations. Updated Section 15 - Regulatory Information.

Prepared by: Toxicology and Hazard Communication

Pfizer Global Environment, Health, and Safety

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End of Safety Data Sheet