

Version: 5.0 Page 1 of 10 Revision date: 16-Aug-2013

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

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Material Name: Doxycycline Hyclate Tablets

Trade Name: VIBRA-TABS; VIBRAMYCIN; BASSADO

Chemical Family: Mixture

Intended Use: Pharmaceutical product used as antibiotic agent

2. HAZARDS IDENTIFICATION

Appearance: Salmon colored film-coated tablets

Signal Word: **DANGER**

Statement of Hazard: May cause harm to the unborn child.

Additional Hazard Information:

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

similar to those seen in clinical use.

Long Term: Repeat-dose studies in animals have shown a potential to cause adverse effects on liver. **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:



EU Risk Phrases:

R61 - May cause harm to the unborn child. Hazardous Substance. Non-Dangerous Goods.

Australian Hazard Classification

(NOHSC):

Material Name: Doxycycline Hyclate Tablets Page 2 of 10
Revision date: 16-Aug-2013 Version: 5.0

Revision date: 16-Aug-2013

2. HAZARDS IDENTIFICATION

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Doxycycline hyclate	24390-14-5	Not Listed	Repr.Cat 1;R61	50-60
Titanium dioxide	13463-67-7	236-675-5	Not Listed	*
Propylene glycol	57-55-6	200-338-0	Not Listed	*
Sodium lauryl sulfate	151-21-3	205-788-1	Not Listed	*
Magnesium Stearate	557-04-0	209-150-3	Not Listed	*
Talc (non-asbestiform)	14807-96-6	238-877-9	Not Listed	*
Microcrystalline cellulose	9004-34-6	232-674-9	Not Listed	*

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Hydroxypropyl methylcellulose	9004-65-3	Not Listed	Not Listed	*
Ethylcellulose	9004-57-3	Not Listed	Not Listed	*
FD&C Yellow No. 6 Lake	Not assigned	Not Listed	Not Listed	*

Additional Information: * Proprietary

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

safety.

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Eye Contact: Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention

immediately.

Skin Contact: Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek

medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not

induce vomiting unless directed by medical personnel. Seek medical attention immediately.

Inhalation: Remove to fresh air and keep patient at rest. Seek medical attention immediately.

Symptoms and Effects of Exposure: For information on potential signs and symptoms of exposure, See Section 2 - Hazards

Identification and/or Section 11 - Toxicological Information.

5. FIRE FIGHTING MEASURES

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

Hazardous Combustion Products: Formation of toxic gases is possible during heating or fire.

Fire Fighting Procedures: During all fire fighting activities, wear appropriate protective equipment, including self-

contained breathing apparatus.

Material Name: Doxycycline Hyclate Tablets Page 3 of 10 Revision date: 16-Aug-2013 Version: 5.0

Fire / Explosion Hazards: Fine particles (such as dust and mists) may fuel fires/explosions.

6. ACCIDENTAL RELEASE MEASURES

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

Section 8). Minimize exposure.

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

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: Minimize dust generation and accumulation. If tablets or capsules are crushed and/or broken,

avoid breathing dust and avoid contact with eyes, skin, and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the

atmosphere should be controlled with dust collectors, HEPA filtration systems or other

equivalent controls.

Storage Conditions: Store as directed by product packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to available public information for specific member state Occupational Exposure Limits.

Doxycycline hyclate

Pfizer OEL TWA-8 Hr: 250µg/m3

Titanium dioxide

ACGIH Threshold Limit Value (TWA) 10 mg/m³ Australia TWA 10 mg/m³ Austria OEL - MAKs 5 mg/m^3 **Belgium OEL - TWA** 10 mg/m³ Bulgaria OEL - TWA 10.0 mg/m³ **Denmark OEL - TWA** 6 mg/m³ 5 mg/m³ Estonia OEL - TWA France OEL - TWA 10 mg/m³ **Greece OEL - TWA** 10 mg/m³ 5 mg/m³

Ireland OEL - TWAs 10 mg/m³ 4 mg/m^3 Latvia OEL - TWA 10 mg/m³ 5 mg/m³ Lithuania OEL - TWA

OSHA - Final PELS - TWAs: 15 mg/m³ **Poland OEL - TWA** 10.0 mg/m³ Portugal OEL - TWA 10 mg/m³

Material Name: Doxycycline Hyclate Tablets Page 4 of 10
Revision date: 16-Aug-2013 Version: 5.0

Q EYDOSIDE	CONTROLS	/ DEDSONAL	PROTECTION
D. EXPUSURE	. CUNIKULO	/ PERSUNAL	. PROTECTION

 Romania OEL - TWA
 10 mg/m³

 Spain OEL - TWA
 10 mg/m³

 Sweden OEL - TWAs
 5 mg/m³

Propylene glycol

Australia TWA 150 ppm

474 mg/m³ 10 mg/m³

Ireland OEL - TWAs 150 ppm

470 mg/m³ 10 mg/m³

Latvia OEL - TWA 7 mg/m³ Lithuania OEL - TWA 7 mg/m³

Sodium lauryl sulfate

Pfizer OEL TWA-8 Hr: 0.3 mg/m³

Magnesium Stearate

ACGIH Threshold Limit Value (TWA) 10 mg/m³
Lithuania OEL - TWA 5 mg/m³
Sweden OEL - TWAs 5 mg/m³

Talc (non-asbestiform)

ACGIH Threshold Limit Value (TWA) 2 mg/m³
Australia TWA 2.5 mg/m³
Austria OEL - MAKs 2 mg/m³
Belgium OEL - TWA 2 mg/m³
Bulgaria OEL - TWA 1.0 fiber/cm³

 $6.0~mg/m^3\\3.0~mg/m^3$

Czech Republic OEL - TWA 2.0 mg/m³

10 mg/m³

Denmark OEL - TWA0.3 fiber/cm3Finland OEL - TWA0.5 fiber/cm3Greece OEL - TWA10 mg/m³

2 mg/m³

 Hungary OEL - TWA
 2 mg/m³

 Ireland OEL - TWAs
 10 mg/m³

 0.8 mg/m³

Lithuania OEL - TWA 2 mg/m³

Netherlands OEL - TWA 0.25 mg/m³
OSHA - Final PELs - Table Z-3 Mineral D: 20 mppcf
Poland OEL - TWA 4.0 mg/m³

 $\begin{array}{ccc} & 1.0 \text{ mg/m}^3 \\ \textbf{Portugal OEL - TWA} & 2 \text{ mg/m}^3 \\ \textbf{Slovakia OEL - TWA} & 2 \text{ mg/m}^3 \end{array}$

 $\begin{array}{ccc} & & 10 \text{ mg/m}^3 \\ \text{Slovenia OEL - TWA} & 2 \text{ mg/m}^3 \\ \text{Spain OEL - TWA} & 2 \text{ mg/m}^3 \\ \text{Sweden OEL - TWAs} & 2 \text{ mg/m}^3 \\ \end{array}$

1 mg/m³

Material Name: Doxycycline Hyclate Tablets Page 5 of 10 Revision date: 16-Aug-2013 Version: 5.0

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Microcrystalline cellulose

ACGIH Threshold Limit Value (TWA) 10 mg/m³ **Australia TWA** 10 mg/m³ **Belgium OEL - TWA** 10 mg/m³ 10 mg/m³ **Estonia OEL - TWA** France OEL - TWA 10 mg/m³ 10 mg/m³ Ireland OEL - TWAs 4 mg/m³ Latvia OEL - TWA 2 mg/m^3 **OSHA - Final PELS - TWAs:** 15 mg/m³ Portugal OEL - TWA 10 mg/m³ Spain OEL - TWA 10 mg/m³

Analytical method available for doxycycline. Contact Pfizer Inc for further information. Analytical Method: **Engineering Controls:** Engineering controls should be used as the primary means to control exposures. General

room ventilation is adequate unless the process generates dust, mist or fumes. Keep airborne

contamination levels below the exposure limits listed above in this section.

Environmental Exposure Controls: Refer to specific Member State legislation for requirements under Community environmental

Personal Protective Equipment: Refer to applicable national standards and regulations in the selection and use of personal

protective equipment (PPE).

Hands: Impervious gloves are recommended if skin contact with drug product is possible and for bulk

processing operations.

Wear safety glasses or goggles if eye contact is possible. Eves:

Impervious protective clothing is recommended if skin contact with drug product is possible and Skin:

for bulk processing operations.

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: Tablet Color: Salmon colored

Odor: Odorless Molecular Formula: Mixture

Molecular Weight: Mixture

Will not occur **Polymerization:**

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of use.

Conditions to Avoid: Fine particles (such as dust and mists) may fuel fires/explosions. As a precautionary measure, keep away from strong oxidizers **Incompatible Materials:**

11. TOXICOLOGICAL INFORMATION

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

ingredients.

Page 6 of 10

Material Name: Doxycycline Hyclate Tablets

Revision date: 16-Aug-2013 Version: 5.0

11. TOXICOLOGICAL INFORMATION

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

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)

Talc (non-asbestiform)

Rat Oral LD50 > 1600 mg/kg

Titanium dioxide

Rat Oral LD50 > 7500 mg/kg Rat Subcutaneous LD50 50 mg/kg

Hydroxypropyl methylcellulose

Rat Oral LD50 > 10,000 mg/kg

Microcrystalline cellulose

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

Sodium lauryl sulfate

Rat Oral LD50 1288 mg/kg

Propylene glycol

Mouse Oral LD50 22,000 mg/kg Rat Oral LD50 20,000 mg/kg Rabbit Dermal LD50 20,800 mg/kg

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.

Irritation / Sensitization: (Study Type, Species, Severity)

Microcrystalline cellulose

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

Sodium lauryl sulfate

Eye Irritation Rabbit Moderate
Skin Irritation Rabbit Mild Moderate
Skin Sensitization - GPMT Guinea Pig Negative
Skin Sensitization - LLNA Mouse Negative

Propylene glycol

Skin Irritation Rabbit Mild Eye Irritation Rabbit Mild

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

Magnesium Stearate

13 Week(s) Rat Oral 1092 g/kg LOAEL Liver

050

253

Material Name: Doxycycline Hyclate Tablets

Page 7 of 10

Revision date: 16-Aug-2013 Version: 5.0

11. TOXICOLOGICAL INFORMATION

Doxycycline hyclate

30 Day(s) Rat Oral 500 mg/kg NOEL None identified 18 Month(s) Rat Oral 50 mg/kg/day NOEL Thyroid, Bone

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

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

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

Sodium lauryl sulfate

Bacterial Mutagenicity (Ames) Salmonella Negative

Carcinogen Status: See below

Talc (non-asbestiform)

IARC: Group 3 (Not Classifiable)

Titanium dioxide

IARC: Group 2B (Possibly Carcinogenic to Humans)

OSHA: Listed

12. ECOLOGICAL INFORMATION

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

the environment should be avoided.

Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

Sodium lauryl sulfate

Oncorhynchus mykiss (Rainbow Trout) LC50 96 Hours 3.6 mg/L

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose of waste in accordance with all applicable laws and regulations. Member State

specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.

14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

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

Material Name: Doxycycline Hyclate Tablets Page 8 of 10 Revision date: 16-Aug-2013 Version: 5.0

15. REGULATORY INFORMATION

EU Symbol:

Toxic to reproduction: Category 1 EU Indication of danger:

EU Risk Phrases:

R61 - May cause harm to the unborn child.

EU Safety Phrases:

S53 - Avoid exposure - obtain special instructions before use.

OSHA Label:

DANGER

May cause harm to the unborn child.

Canada - WHMIS: Classifications

WHMIS hazard class:

Class D, Division 2, Subdivision A



Doxycycline hyclate

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

Australia (AICS): Present

Titanium dioxide

California Proposition 65 carcinogen initial date 9/2/11 airborne, unbound particles of

respirable size

Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present **EU EINECS/ELINCS List** 236-675-5

Hydroxypropyl methylcellulose

California Proposition 65 Not Listed Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present

Standard for the Uniform Scheduling Schedule 4

for Drugs and Poisons:

Ethylcellulose

Not Listed **California Proposition 65** Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present

Material Name: Doxycycline Hyclate Tablets Page 9 of 10
Revision date: 16-Aug-2013 Version: 5.0

15. REGULATORY INFORMATION

Propylene glycol

California Proposition 65
Inventory - United States TSCA - Sect. 8(b)
Australia (AICS):
Present
EU EINECS/ELINCS List
200-338-0

Sodium lauryl sulfate

California Proposition 65Not ListedInventory - United States TSCA - Sect. 8(b)PresentAustralia (AICS):PresentStandard for the Uniform SchedulingSchedule 6

for Drugs and Poisons:

EU EINECS/ELINCS List 205-788-1

FD&C Yellow No. 6 Lake

California Proposition 65 Not Listed

Magnesium Stearate

California Proposition 65
Inventory - United States TSCA - Sect. 8(b)
Australia (AICS):
Present
EU EINECS/ELINCS List
209-150-3

Talc (non-asbestiform)

California Proposition 65
Inventory - United States TSCA - Sect. 8(b)
Australia (AICS):
Present
EU EINECS/ELINCS List
Present
238-877-9

Microcrystalline cellulose

California Proposition 65
Inventory - United States TSCA - Sect. 8(b)
Australia (AICS):
Present
EU EINECS/ELINCS List
232-674-9

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

R61 - May cause harm to the unborn child

Data Sources: Pfizer proprietary drug development information. Safety data sheets for individual ingredients.

Publicly available toxicity information.

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

Ingredients. Updated Section 4 - First Aid Measures. Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 11 - Toxicology Information. Updated Section 5 - Fire Fighting Measures. Updated Section 15 -

Regulatory Information.

Product Stewardship Hazard Communication
Pfizer Global Environment, Health, and Safety Operations

Prepared by:

Material Name: Doxycycline Hyclate Tablets

Revision date: 16-Aug-2013

Page 10 of 10

Version: 5.0

Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

End of Safety Data Sheet
