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according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 **Product Code:** 14454

> **Product Name:** Minocycline (hydrochloride)

(4S,12aS)-4,7-bis(dimethylamino)-1,4,4aS,5,5aR,6,11,12a-octahydro-3,10,12,12a-tetr Synonyms:

ahydroxy-1,11-dioxo-2-naphthacenecarboxamide, monohydrochloride; NSC 141993;

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified uses: For research use only, not for human or veterinary use.

1.3 **Details of the Supplier of the Safety Data Sheet:** 

> **Company Name:** Cayman Chemical Company

> > 1180 E. Ellsworth Rd. Ann Arbor, MI 48108

www.caymanchem.com Web site address:

Information: Cayman Chemical Company +1 (734)971-3335

1.4 **Emergency telephone number:** 

> CHEMTREC Within USA and Canada: **Emergency Contact:** +1 (800)424-9300

> > CHEMTREC Outside USA and Canada: +1 (703)527-3887

## Section 2. Hazards Identification

2.1 Classification of the Substance or Mixture:

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:

Skin Corrosion/Irritation, Category 2

Serious Eye Damage/Eye Irritation, Category 2A

**Toxic To Reproduction, Category 2** 

Target Organ Systemic Toxicity (single exposure), Category 3

Toxic To Reproduction, Effects on or via lactation

2.1.2 Classification according to Directive 1999/45/EC:

Xi: Irritant T: Toxic

Reproductive Hazard: 3

Risk Phrases: R36/37/38, R62, R63, R64

For full text of R- phrases: see SECTION 15.

2.2 **Label Elements:** 

Labeling according to Regulation (EC) No 1272/2008 [CLP]: 2.2.1





GHS Signal Word: Warning

**GHS Hazard Phrases:** 

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H361: Suspected of damaging fertility or the unborn child.

H335: May cause respiratory irritation.

H362: May cause harm to breast-fed children.



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#### **GHS Precaution Phrases:**

P264: Wash {hands} thoroughly after handling.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

P362+364: Take off contaminated clothing and wash it before reuse.

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P281: Use personal protective equipment as required.

P261: Avoid breathing {dust/fume/gas/mist/vapours/spray}.

P263: Avoid contact during pregnancy/while nursing.

P260: Do not breathe {dust/fume/gas/mist/vapours/spray}.

#### **GHS Response Phrases:**

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P332+313: If skin irritation occurs, get medical advice/attention.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists, get medical advice/attention.

P308+313: IF exposed or concerned: Get medical attention/advice.

P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

### **GHS Storage and Disposal Phrases:**

Please refer to Section 7 for Storage and Section 13 for Disposal information.

### 2.2.2 Labeling according to Directive 1999/45/EC:





Xi

Reproductive Hazard: 3

#### 2.3 Adverse Human Health Causes skin irritation.

Effects and Symptoms: Causes serious eye irritation.

Material may be irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation, ingestion, or skin absorption.

May cause respiratory irritation.

May cause harm to breast-fed children.

Suspected of damaging fertility or the unborn child.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

# Section 3. Composition/Information on Ingredients

CAS#/ RTECS#	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	Risk Phrases/ GHS Classification
13614-98-7 QI7630500	Minocycline hydrochloride	100.0 %	237-099-7 NA	Xi;T; Rp:3, R36/37/38-62-63-64 Skin Corr. 2: H315 Eye Damage 2A: H319 TOST (SE) 3: H335 H336 Toxic Repro. 2: H361 Toxic Lactate: H362



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## Section 4. First Aid Measures

4.1 **Description of First Aid** 

Measures:

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained

personnel. Get immediate medical attention.

In Case of Skin

Contact:

Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before

reuse.

In Case of Eye

Contact:

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes

examined and tested by medical personnel.

Wash out mouth with water provided person is conscious. Never give anything by mouth In Case of Ingestion:

to an unconscious person. Get medical attention. Do NOT induce vomiting unless

directed to do so by medical personnel.

## Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

Media: Use water spray to cool fire-exposed containers.

Unsuitable A solid water stream may be inefficient.

**Extinguishing Media:** 

5.2 Flammable Properties No data available.

and Hazards:

No data. Flash Pt:

LEL: No data. UEL: No data. **Explosive Limits:** 

**Autoignition Pt:** No data.

5.3 **Fire Fighting** As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH

Instructions: approved or equivalent), and full protective gear to prevent contact with skin and eyes.

## Section 6. Accidental Release Measures

6.1 Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.

**Protective Equipment** and Emergency

As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy

rubber gloves). **Procedures:** 

6.2 **Environmental** 

**Precautions:** 

Take steps to avoid release into the environment, if safe to do so.

6.3 **Methods and Material**  Contain spill and collect, as appropriate.

For Containment and

Transfer to a chemical waste container for disposal in accordance with local regulations.

Cleaning Up:

## Section 7. Handling and Storage

7.1 Avoid breathing dust/fume/gas/mist/vapours/spray. **Precautions To Be** 

Taken in Handling: Avoid prolonged or repeated exposure.

7.2 **Precautions To Be** Keep container tightly closed.

> Taken in Storing: Store in accordance with information listed on the product insert.

## Section 8. Exposure Controls/Personal Protection

#### 8.1 **Exposure Parameters:**

CAS#	Partial Chemical Name	Britain EH40	France VL	Europe
13614-98-7	Minocycline hydrochloride	No data.	No data.	No data.

Multi-region format



10.6 Hazardous

**Decomposition Or** 

**Byproducts:** 

carbon dioxide

nitrogen oxides

carbon monoxide

hydrogen chloride gas

# **SAFETY DATA SHEET Minocycline (hydrochloride)**

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CAS#	<i>‡</i>	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits
1361	3614-98-7 Minocycline hydrochloride		ochloride	No data.	No data.	No data.
2	Expos	ure Controls:		•	-	•
2.1	Engine	ering Controls	Use process er	nclosures, local exhaust	ventilation, or other engine	eering controls to
	(Ventil	ation etc.):	control airborne	e levels below recomme	nded exposure limits.	
2.2	Perso	nal protection e	quipment:			
	Eye Pr	otection:	Safety glasses			
	Protec	tive Gloves:	Compatible che	emical-resistant gloves		
	Other Clothin	Protective ng:	Lab coat			
	•	atory Equipmen fy Type):	t NIOSH approve	ed respirator, as condition	ons warrant.	
		Hygienic/Mainter		•		
	ance P	ractices:		g or utilizing this materia	al should be equipped with	an eyewash and a
			safety shower.	ly after handling.		
				<u>,                                     </u>		
		5	ection 9. Pr	nysical and Chem	nical Properties	
1			•	emical Properties		
	-	al States:	[ ] Gas	[ ] Liquid [ X ] S	Solid	
		rance and Odor:	•	lline solid		
		g Point:	No data.			
	Boiling	g Point:	No data.			
	Flash I	Pt:	No data.			
	Evapo	ration Rate:	No data.			
	Explos	sive Limits:	LEL: No	data.	UEL: No data.	
	Vapor mm Ho	Pressure (vs. Ai g):	<b>r or</b> No data.			
	Vapor	Density (vs. Air	<b>= 1):</b> No data.			
	Specif	ic Gravity (Wate	r = 1): No data.			
	Solubi	lity in Water:	No data.			
	Solubi	lity Notes:	~1 mg/m	nl in PBS (pH 7.2); ~5 m	g/ml in DMSO; ~10 mg/ml	in DMF;
	Autoig	nition Pt:	No data.			
.2	Other	Information				
	Percer	nt Volatile:	No data.			
		ılar Formula & V				
				10. Stability and	Reactivity	
0.1	Reacti					
0.2	Stabili	-	Unstable [ ] Stable [ X ]			
0.3		ty Note(s):			rmation listed on the produ	ct insert.
<del>-</del>			Will occur [ ]	Will not occur [ X ]	312.2 211 <b> p. 344</b>	<del>-</del>
0.4	-	Polymerization: Will occur [ ] Will not occur [ X ]  Conditions To Avoid: No data available.				
0. <del>4</del> 0.5		patibility -	No data availab			
U.J		patibility - als To Avoid:	i No uata avallak	no.		
			and a section of			

Multi-region format



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## Section 11. Toxicological Information

11.1 Information on The toxicological effects of this product have not been thoroughly studied.

Minocycline (hydrochloride) - Toxicity Data: Oral TDLO (human): 14286 μg/kg/10D **Toxicological Effects:** 

> (intermittent); Intravenous TDLO (man): 2857 µg/kg; Oral LD50 (rat): 2380 mg/kg; Intraperitoneal LD50 (rat): 331 mg/kg; Subcutaneous LD50 (rat): 1700 mg/kg; Oral LD50 (mouse): 3600 mg/kg; Intraperitoneal LD50 (mouse): 299 mg/kg; Subcutaneous LD50

(mouse): 2290 mg/kg;

**Effects:** 

Chronic Toxicological Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented

here. See actual entry in RTECS for complete information. Minocycline (hydrochloride) RTECS Number: QI7630500

NTP? No IARC Monographs? No OSHA Regulated? No Carcinogenicity:

## Section 12. Ecological Information

12.1 Toxicity: Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

## Section 13. Disposal Considerations

13.1 **Waste Disposal**  Dispose in accordance with local, state, and federal regulations.

Method:

# Section 14. Transport Information

#### LAND TRANSPORT (US DOT): 14.1

**DOT Proper Shipping Name:** Not dangerous goods.

**DOT Hazard Class: UN/NA Number:** 

### LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not dangerous goods.

**UN Number: Hazard Class:** 

#### 14.3 **AIR TRANSPORT (ICAO/IATA):**

ICAO/IATA Shipping Name: Not dangerous goods.

**Additional Transport** Transport in accordance with local, state, and federal regulations.

Information:

## Section 15. Regulatory Information

#### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
13614-98-7	Minocycline hydrochloride	No	No	No

CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists
13614-98-7	Minocycline hydrochloride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA
		PROP.65: Yes



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### **European Community Hazard Symbol codes:**





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Reproductive Hazard: 3

## **European Community Risk and Safety Phrases:**

R36/37/38 Irritating to eyes, respiratory system and skin.

R62 Risk of impaired fertility.

R63 Possible risk of harm to the unborn child.
R64 May cause harm to breastfed babies.

S22 Do not breathe dust.

S24/25 Avoid contact with skin and eyes.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label

whenever possible.)

Regulatory Information This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and

**Statement:** European Directive 67/548/EEC as amended.

## Section 16. Other Information

**Revision Date:** 02/04/2014

Additional Information About No data available.

This Product:

**Company Policy or** 

Disclaimer:

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.