

100-1047 - Doxycycline (Hyclate)

Revision Date 04-May-2022 Revision Number 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Doxycycline (Hyclate)

Other means of identification

Catalog Number 100-1047

UN/ID no. UN3077

Document Number 10000014802

Synonyms WC 2031;

Recommended use of the chemical and restrictions on use

Recommended Use Laboratory chemicals

Details of the supplier of the safety data sheet

Manufacturer/Supplier

STEMCELL Technologies Canada Inc. Suite 500 - 1618 Station Street Vancouver, British Columbia V6A 1B6 Canada

Emergency telephone number

Emergency Telephone 1-800-667-0322

### 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Effects on or via lactation	Yes
Specific target organ toxicity (single exposure)	Category 3



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Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

### Warning

#### Hazard statements

Harmful if swallowed

Harmful in contact with skin

Harmful if inhaled

Causes skin irritation

Causes serious eye irritation

May cause harm to breast-fed children

May cause respiratory irritation

May cause drowsiness or dizziness



Appearance Crystalline

Physical state Solid

Odor No data available

### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not breathe dusts or mists

Avoid contact during pregnancy/while nursing

Do not eat, drink or smoke when using this product

Wash face, hands and any exposed skin thoroughly after handling

Use only outdoors or in a well-ventilated area

Wear protective gloves/protective clothing/eye protection/face protection

### Precautionary statements - Response

IF exposed or concerned: Get medical advice/attention

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

If eye irritation persists: Get medical advice/attention

Call a POISON CENTER or doctor if you feel unwell

IF ON SKIN: Wash with plenty of water and soap

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell



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Rinse mouth

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other Information

Toxic to aquatic life with long lasting effects

Very toxic to aquatic life

#### **Unknown acute toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity

- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

Synonyms WC 2031;.

Chemical name	CAS No.	Weight-%
(4S,4aR,5S,5aR,6R,12aR)4(dimethylamino)-1,5,10,	24390-14-5	100
11,12a-pentahydroxy-6-methyl-3,12-dioxo-4a,5,5a,		
6-tetrahydro-4H-tetracene-2-carboxamide;ethanol;h		
ydrate;hydrochloride		

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

### Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

Inhalation IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if

symptoms occur. If breathing has stopped, give artificial respiration. Get medical attention

immediately. Remove to fresh air. If symptoms persist, call a physician.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.



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Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

**Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. If symptoms

persist, call a physician.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Get medical attention.

Self-protection of the first aider

Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the

material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protective

equipment as required. See section 8 for more information.

Most important symptoms and effects, both acute and delayed

**Symptoms** Burning sensation. Inhalation of high vapor concentrations may cause symptoms like

headache, dizziness, tiredness, nausea and vomiting. Coughing and/ or wheezing. Difficulty

in breathing.

Indication of any immediate medical attention and special treatment needed

5. FIRE-FIGHTING MEASURES

surrounding environment.

**Unsuitable extinguishing media** CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

No information available.

**Explosion data** 

**Sensitivity to Mechanical Impact** None. **Sensitivity to Static Discharge** None.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures



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Personal precautions Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Ensure

adequate ventilation. Avoid generation of dust. Do not breathe dust. Use personal

protective equipment as required.

Other Information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling Remove contaminated clothing and shoes. Take off contaminated clothing and wash before

reuse. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Do not eat, drink

or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep out of the reach of children. Store in accordance with information listed on the Product

Information Sheet (PIS).

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Limits**The following ingredients are the only ingredients of the product above the cut-off level (or

level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other

recommended limit. At this time, the other relevant constituents have no known exposure

limits from the sources listed here.



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**Appropriate engineering controls** 

Showers **Engineering controls** 

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). If splashes are likely to occur, wear

safety glasses with side-shields.

Impervious gloves. Wear suitable gloves. Hand protection

Skin and body protection Long sleeved clothing. Wear suitable protective clothing.

No protective equipment is needed under normal use conditions. If exposure limits are Respiratory protection

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Wash hands before breaks and immediately after handling the product. Avoid contact with

> skin, eyes or clothing. Wear suitable gloves and eye/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Solid **Appearance** Crystalline

Color No information available No data available Odor **Odor threshold** No data available

Remarks • Method **Property** Values

No data available None known Melting point / freezing point No data available None known No data available Boiling point / boiling range None known No data available Flash point None known No data available **Evaporation rate** None known Flammability (solid, gas) Product is not flammable. None known Flammability Limit in Air

None known

Upper flammability limit: No data available

Lower flammability limit: No data available

Vapor pressure No data available None known No data available Vapor density None known



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Relative density
Water solubility
No data available
None known
No data available
None known
None known
None known
Nome known
Nome known
Nome known

(pH 7.2): 3 mg/mL;

Partition coefficientNo data availableNone knownAutoignition temperatureNo data availableNone knownDecomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Explosive properties No data available Oxidizing properties No information available

Other Information

Softening point No information available

Molecular weight 1025.9

Molecular formula 2[C22H24N2O8] • 2HCl • H2O • C2H6O

VOC Content (%)
Liquid Density
No information available
No information available
No information available

### 10. STABILITY AND REACTIVITY

**Reactivity** No information available.

**Chemical stability** Stable under recommended transport or storage conditions.

Possibility of hazardous reactions None under normal processing.

**Hazardous polymerization** Hazardous polymerization does not occur.

Conditions to avoid Excessive heat.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products Carbon dioxide (CO2). Carbon monoxide. Hydrogen chloride gas. Nitrogen oxides (NOx).

# 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

**Product Information** 

Inhalation May cause drowsiness or dizziness. May cause irritation of respiratory tract. Specific test

data for the substance or mixture is not available. Harmful by inhalation. (based on

components).

Eye contact Irritating to eyes. Specific test data for the substance or mixture is not available. Causes



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serious eye irritation. (based on components).

**Skin contact**Causes skin irritation. Specific test data for the substance or mixture is not available. (based

on components).

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Specific test

data for the substance or mixture is not available. Harmful if swallowed. (based on

components).

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Redness. May cause redness and tearing of the eyes. Inhalation of high vapor

concentrations may cause symptoms like headache, dizziness, tiredness, nausea and

vomiting. Coughing and/ or wheezing.

#### Numerical measures of toxicity

### **Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 1,700.00 mg/kg
ATEmix (dermal) 1,100.00 mg/kg
ATEmix (inhalation-dust/mist) 1.50 mg/l

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**Product Information** 

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Product Information	Classification based on data available for ingredients. Irritating to skin.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Irritating to eyes.
Product Information	
Respiratory or skin sensitization Product Information	No information available.
Germ cell mutagenicity Product Information	No information available.
Carcinogenicity	No information available.



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Reproductive toxicity

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Classification based on data available for ingredients. May cause harm to breastfed babies.

Product Information

**STOT - single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.

Product Information

**STOT - repeated exposure** No information available.

Product Information

**Aspiration hazard** No information available.

12. ECOLOGICAL INFORMATION

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

**Product Information** 

Persistence and degradability No information available.

**Bioaccumulation** There is no data for this product.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

14. TRANSPORT INFORMATION

Note: Transport in accordance with local, state, and federal regulations. When sold in quantities

of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging

does not have to be labeled as Dangerous Goods/Excepted Quantity.



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DOT

UN/ID no. UN3077

Proper shipping name Environmentally hazardous substance, solid, n.o.s. (Doxycycline (hyclate))

Hazard class 9 Miscellaneous dangerous substances and articles

Packing Group ||

TDG Not regulated

MEX Not regulated

ICAO (air) Not regulated

IATA

UN Number UN3077

**UN proper shipping name** Environmentally hazardous substance, solid, n.o.s. (Doxycycline (hyclate))

**Transport hazard class(es)** 9 Miscellaneous dangerous substances and articles

Packing Group

**IMDG** 

UN Number UN3077

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Doxycycline (hyclate))

**Transport hazard class(es)** 9 Miscellaneous dangerous substances and articles

Packing Group

RID Not regulated

ADR Not regulated

ADN Not regulated

# 15. REGULATORY INFORMATION

International Inventories

**TSCA** Does not comply **DSL/NDSL** Complies **EINECS/ELINCS** Does not comply Does not comply **ENCS IECSC** Does not comply **KECL** Complies **PICCS** Does not comply **AICS** Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances



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**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

#### **US Federal Regulations**

### **SARA** 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### **US State Regulations**

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65
(4S,4aR,5S,5aR,6R,12aR)4(dimethylamino)-1,5,10,11,12a-penta	· ·
hydroxy-6-methyl-3,12-dioxo-4a,5,5a,6-tetrahydro-4H-tetracene- 2-carboxamide:ethanol;hydrate;hydrochloride - 24390-14-5	

### U.S. State Right-to-Know Regulations

**US State Regulations** 

This product does not contain any substances regulated by state right-to-know regulations

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable



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# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Prepared By, Quality Control. STEMCELL Technologies Canada Inc.

Revision Date 04-May-2022

Revision Note No information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. STEMCELL Technologies Inc. shall not be held liable for any damage resulting from handling or from contact with the product.

**End of Safety Data Sheet**