# **SAFETY DATA SHEET:**

Stemolecule Doxycycline Hyclate



# **1. IDENTIFICATION**

1. DENTIFICATION	
1.1. Product name	Stemolecule™ Doxycycline Hyclate
1.2. Catalog number	04-0016
1.3. Uses and restrictions	For research use only. Not for use in diagnostic or
	therapeutic applications
1.4. Manufacturer/Supplier	REPROCELL USA
	9000 Virginia Manor Road
	Beltsville, MD 20705
	301-470-3362
1.5. In case of emergency	• For medical emergencies, contact your local emergency center.
	<ul> <li>For transportation emergencies, contact your local transportation authorities.</li> </ul>
	• For other non-medical or non-environmental emergencies please call (617) 245-0030, 8:00 am-4:00 pm EST, Monday – Friday.
2. HAZARDS IDENTIFICATION	
2.1. GHS classification according to	• Acute toxicity, Oral (Category 4), H302
Annex II	• Skin irritation (Category 2), H315
	• Eye irritation (Category 2A), H319
	• Specific target organ toxicity – single exposure (Category
	3), Respiratory System, H335
2.2. Signal word	Warning

- 2.3. Symbol
- 2.4. Hazard statement(s)
- H302: Harmful if swallowed
- H315: Causes skin irritation
- H319: Causes serious eye irritation
- H335: May cause respiratory irritation
- P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264: Wash skin thoroughly after handling.
- P270: Do not eat, drink, or smoke when using this product.
- P280: Wear protective gloves / eye protection / face protection.

# 2.5. Precautionary statement(s)

- P301 + P312: IF SWALLOWED: Call a POISON CENTER of doctor/physician if you feel unwell.
- P302 + P352: IF ON SKIIN: Wash with plenty of soap and water.
- P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
- P312: Call a POISON CENTER of doctor/physician if you feel unwell.
- P321: Specific treatment (see supplemental first aid instructions on this label).
- P330: Rinse mouth.
- P332 + P313: If shin irritation occurs: Get medical advice / attention.
- P337 + P313: If eye irritation persists: Get medical advice/attention.
- P362: Take off contaminated clothing and wash before reuse.
- P403+P233: Store in a well-ventilated place. Keep container tightly closed.
- P405: Store locked up.
- P501: Dispose of contents / container to an approved waste disposal plant.
- 2.6. Hazards not otherwise classified (HNOC) or not covered by GHS

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Chemical nameStemolecule™ Doxycycline hyclate3.2 SynonymsDoxycycline hydrochloride hemiethanolate hemihydrate3.3 Chemical formula $C_{22}H_{24}N_2O_8 \cdot HCl \cdot 1/2 (H_2O) \cdot 1/2(C_2H_6O)$ 3.4 Molecular weight512.94 g/mol3.5 CAS number24390-14-5

None

# 4. FIRST AID MEASURES

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4.1 First aid instructions

General advice

Move out of exposure area. Consult a physician.

• Eyes

Check for and remove contact lenses immediately. Flush thoroughly with water for at least 15 minutes. Call a physician.



- Immediately flush skin with copious amounts of water. Skin • Remove contaminated clothing and shoes and wash before use. Contact a physician If swallowed, wash mouth out with water provided the victim Ingestion is conscious. Do not induce vomiting. Loosen tight clothing. Contact a physician. Inhalation If inhaled, remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, call a physician. Wash thoroughly with soap and water. Allow wound to bleed Puncture wounds freely. Contact a physician 4.2 Most important Described in section 2. symptoms/effects, acute and immediate 4.3 Indications of immediate No data available. medical attention and special treatment needed **5. FIRE FIGHTING MEASURES** 5.1 Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Carbon oxides, nitrogen oxides, hydrogen chloride gas
  - 5.2 Specific hazards arising from the chemical
  - 5.3 Special protective equipment and precautions for firefighters

### 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures
- 6.2 Environmental precautions
- 6.3 Methods and materials for containment and clean up

### 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

- Avoid inhalation, contact with eyes, skin, and clothing. ٠
- Avoid prolonged or repeated exposure.
- Provide appropriate exhaust ventilation at places where . dust formed.
- For other precautions see section 2.5.

Keep tightly closed. Store at 4 °C or lower, protected from light.

7.2. Conditions for safe storage, including any incompatibilities

Wear protective equipment (Section 8). Avoid dust

necessary.

formation. Avoid breathing vapours, mist, gas, or dust. Ensure adequate ventilation.

Wear self-contained breathing apparatus for firefighting if

Do not let product enter drains.

Sweep into an appropriate container. Avoid raising dust. Ensure complete closure of container. Ventilate area and wash spill site after material pickup is complete. Dispose waste following proper disposal method (see section 13).

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters	No known occupational exposure limits values.
8.2 Appropriate engineering controls	Safety shower and eye wash. Mechanical exhaust required.
8.3 Protection measures and	Handle in accordance with good industrial hygiene and

- personal protective equipment
   Respiratory protection
   Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EN 143) respirator cartridges.
  - Eye protection Chemical safety goggles.
- Skin protection Protective gloves and lab coat. Use nitrile rubber gloves with a minimum thickness of 0.11 mm.

#### 9. PHYSICAL/CHEMICAL PROPERTIES

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9.1 Appearance	Yellow to green powder.
9.2 Odor	No data available.
9.3 Odor threshold	No data available
9.4 pH	No data available.
9.5 Melting point / freezing point	No data available.
9.6 Initial boiling point and boiling range	No data available.
9.7 Flash point	No data available.
9.8 Evaporation rate	No data available.
9.9 Flammability (solid, gas)	No data available.
9.10 Upper/lower flammability or explosive limits	No data available.
9.11 Vapor pressure	No data available.
9.12 Vapor density	No data available.
9.13 Relative density	No data available.
9.14 Solubility(ies)	100 mM in dimethylsulfoxide, 100 mM in water
9.15 Partition coefficient: n- octanol/water	No data available.
9.16 Auto-ignition temperature	No data available.
9.17 Decomposition temperature	No data available.
9.18 Viscosity	No data available.
9.19 Explosive properties	No data available.
9.20 Oxidizing properties	No data available.



#### **10. STABILITY/REACTIVITY**

10.1 Reactivity	No data available.
10.2 Chemical stability	Decomposes on exposure to light. Stable under recommended storage conditions.
10.3 Possible of hazardous reactions	No data available.
10.4 Conditions to avoid	No data available.
10.5 Incompatible materials	Strong oxidizing agents.
10.6 Hazardous decomposition products	No data available.

## **11. TOXICOLOGICAL INFORMATION**

11.1 Toxicological effects

- Acute toxicity
- Skin corrosion / irritation
- Serious eye damage / eye irritation
- Respiratory or skin sensitization
- Germ cell mutagenicity
- Carcinogenicity

No data available.

- No data available.
- No data available.
- No data available.
- No data available.
- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
- NTP: No components of the product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.

No data available. No data available.

No data available.

 Specific target organ toxicity – single exposure

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Reproductive toxicity

- Specific target organ toxicity – repeated exposure
- Aspiration Hazard
- 11.2 Symptoms related to the physical, chemical and toxicological characteristics
- 11.3 Effects of short-term exposure.
- 11.4 Effects of long-term exposure No
- 11.5 Numerical measures of toxicity
- 11.5 Numerical measures of toxicity

No data available. No data available.

No data available. No data available.

No data available.

11.6 Other information	Narcosis, damage to heart.
	Liver – Irregularities – Based on human evidence.

# **12. ECOLOGICAL INFORMATION**

12.1 Toxicity	Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.
12.2 Persistence and degradability	No data available.
12.3 Bioaccumulative potential	No data available.
12.4 Mobility in soil	No data available.
12.5 Results of PBT and vPvB assessment	No data available.
12.6 Other adverse effects	No data available.
13. DISPOSAL CONSIDERATIONS	
13.1 Disposal method	Offer surplus and non-recyclable solutions to a licensed disposal company. Empty containers and waste material should be transported/delivered using a registered waste carrier for recycling or waste disposal in accordance with local regulations.

Not dangerous goods. Not dangerous goods

Not dangerous goods

Not dangerous goods.

Refer to section 8. 13.2 Personal safety

#### **14. TRANSPORT INFORMATION**

- DOT (US)
- IMDG .
- IATA
- ADR/RID

#### **15. REGULATORY INFORMATION**

**U.S.** Federal Regulations

• SARA 313 components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels.

- SARA 302 components •
- SARA 311/312 Hazards
- Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see CFR 61)

**U.S. State Regulations** 

• California Proposition 65

Does not contain any components subject to reporting.

Does not contain any components subject to reporting

Does not contain any components subject to reporting.

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.: Doxycycline, hydrochloride, hemiethanolate, hemihydrate

•	Massachusetts Right to Know Components	Does not contain any components subject to reporting.
•	Pennsylvania Right to Know Components	Doxycycline, hydrochloride, hemiethanolate, hemihydrate, CAS No. 24390-14-5
٠	New Jersey Right to Know	Doxycycline, hydrochloride, hemiethanolate, hemihydrate,
	Components	CAS No. 24390-14-5
WH	IMIS Hazard Class	D2B: Toxic material causing other toxic effects.

This SDS was prepared in accordance with 29 CFR 1910.1200, and Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.

#### **16. OTHER INFORMATION**

**Preparation Date** 

Version No.

Prepared By

Notice

The information in this Safety Data Sheet is believed to be correct at the date of publication, but it 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. REPROCELL, Inc. shall not be held liable for any damage resulting from handling or from contact with the product. See REPROCELL, Inc. website for terms and conditions of sale. 25 September 2018 2.0 Quality Control

#### **END OF SAFETY DATA SHEET**