

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Doxycycline Formulation

Version 5.1      Revision Date: 12/08/2025      SDS Number: 6105695-00013      Date of last issue: 06/20/2025  
Date of first issue: 07/06/2020

### SECTION 1. IDENTIFICATION

Product name : Doxycycline Formulation

#### Manufacturer or supplier's details

Company name of supplier : Merck & Co., Inc  
Address : 126 E. Lincoln Avenue  
Rahway, New Jersey U.S.A. 07065  
Telephone : 908-740-4000  
Emergency telephone : 1-908-423-6000  
E-mail address : EHSDATASTEWARD@merck.com

#### Recommended use of the chemical and restrictions on use

Recommended use : Veterinary product  
Restrictions on use : Not applicable

### SECTION 2. HAZARDS IDENTIFICATION

**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

#### Hazards for the product as supplied

Skin corrosion : Category 1

Serious eye damage : Category 1

#### Other hazards

None known.

#### Hazards associated with a change in physical form:

Conditions	Hazards
If small particles are generated during further processing, handling or by other means.	May form combustible dust concentrations in air.

#### GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H314 Causes severe skin burns and eye damage.

Supplemental Hazard Statements : Corrosive to the respiratory tract.

Precautionary Statements : **Prevention:**  
P260 Do not breathe dust.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Doxycycline Formulation

Version 5.1      Revision Date: 12/08/2025      SDS Number: 6105695-00013      Date of last issue: 06/20/2025  
Date of first issue: 07/06/2020

P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves, protective clothing, eye protection and face protection.

### Response:

P301 + P330 + P331 + P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER.  
P303 + P361 + P353 + P310 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER.

P363 Wash contaminated clothing before reuse.

### Storage:

P405 Store locked up.

### Disposal:

P501 Dispose of contents and container to an approved waste disposal plant.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS No./Unique ID	Concentration (% w/w)	Trade secret
Doxycycline Hyclate	24390-14-5*	>= 30 - <= 60	TSC

\* Indicates that the identifier is a CAS No.

TSC- the actual concentration or concentration range is withheld as a trade secret

### SECTION 4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.

If inhaled : If inhaled, remove to fresh air.  
If not breathing, give artificial respiration.  
If breathing is difficult, give oxygen.  
Get medical attention immediately.

In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Get medical attention immediately.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Doxycycline Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06/20/2025
5.1	12/08/2025	6105695-00013	Date of first issue: 07/06/2020

---

- In case of eye contact : Wash clothing before reuse.  
Thoroughly clean shoes before reuse.  
: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.  
If easy to do, remove contact lens, if worn.  
Get medical attention immediately.
- If swallowed : If swallowed, DO NOT induce vomiting.  
If vomiting occurs have person lean forward.  
Call a physician or poison control center immediately.  
Rinse mouth thoroughly with water.  
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : Causes serious eye damage.  
Causes severe burns.  
Corrosive to the respiratory tract.  
Causes digestive tract burns.  
No information available.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
- Notes to physician : Treat symptomatically and supportively.
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### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.  
Exposure to combustion products may be a hazard to health.
- Hazardous combustion products : Carbon oxides
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.
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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency measures : Use personal protective equipment.  
Follow safe handling advice (see section 7) and personal



# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Doxycycline Formulation

Version 5.1      Revision Date: 12/08/2025      SDS Number: 6105695-00013      Date of last issue: 06/20/2025  
Date of first issue: 07/06/2020

Organic peroxides  
Explosives

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

inert or nuisance dust	50 Million particles per cubic foot Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3
	15 mg/m <sup>3</sup> Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3
	5 mg/m <sup>3</sup> Value type (Form of exposure): TWA (respirable fraction) Basis: OSHA Z-3
	15 Million particles per cubic foot Value type (Form of exposure): TWA (respirable fraction) Basis: OSHA Z-3
Dust, nuisance dust and particulates	10 mg/m <sup>3</sup> Value type (Form of exposure): PEL (Total dust) Basis: CAL PEL
	5 mg/m <sup>3</sup> Value type (Form of exposure): PEL (respirable dust fraction) Basis: CAL PEL

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Doxycycline Hyclate	24390-14-5	TWA	OEL = 100 µg/m <sup>3</sup> (OEB 2)	Internal

**Engineering measures** : Use feasible engineering controls to minimize exposure to compound.  
All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

#### Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Doxycycline Formulation

Version 5.1      Revision Date: 12/08/2025      SDS Number: 6105695-00013      Date of last issue: 06/20/2025  
Date of first issue: 07/06/2020

---

release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection  
Material : Chemical-resistant gloves

Eye protection : Wear safety glasses with side shields or goggles.  
If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.  
Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.

Skin and body protection  
Hygiene measures : Work uniform or laboratory coat.  
: If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.  
When using do not eat, drink or smoke.  
Wash contaminated clothing before re-use.  
The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Color : light yellow

Odor : No data available

Odor Threshold : No data available

pH : 1.5 - 3.5

Melting point/freezing point : No data available

Initial boiling point and boiling range : No data available

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : May form explosive dust-air mixture during processing, handling or other means.

Flammability (liquids) : Not applicable

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower : No data available

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Doxycycline Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06/20/2025
5.1	12/08/2025	6105695-00013	Date of first issue: 07/06/2020

---

flammability limit

Vapor pressure : Not applicable

Relative vapor density : Not applicable

Relative density : No data available

Density : No data available

Solubility(ies)

Water solubility : No data available

Partition coefficient: n-octanol/water : Not applicable

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Molecular weight : No data available

Particle characteristics

Particle size : No data available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : May form explosive dust-air mixture during processing, handling or other means.  
Can react with strong oxidizing agents.

Conditions to avoid : Heat, flames and sparks.  
Avoid dust formation.

Incompatible materials : Oxidizing agents

Hazardous decomposition products : No hazardous decomposition products are known.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation

Skin contact

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Doxycycline Formulation

Version 5.1      Revision Date: 12/08/2025      SDS Number: 6105695-00013      Date of last issue: 06/20/2025  
Date of first issue: 07/06/2020

---

Ingestion  
Eye contact

### Acute toxicity

Not classified based on available information.

### Product:

Acute oral toxicity : Acute toxicity estimate: 4,000 mg/kg  
Method: Calculation method

### Components:

#### **Doxycycline Hyclate:**

Acute oral toxicity : LD50 (Rat): 2,000 mg/kg  
LD50 (Mouse): 1,870 mg/kg  
LD50 (Dog): 500 mg/kg  
Acute toxicity (other routes of administration) : LD50 (Rat): 222 mg/kg  
Application Route: Intravenous

### **Skin corrosion/irritation**

Causes severe burns.

### Components:

#### **Doxycycline Hyclate:**

Remarks : No data available  
May irritate skin.

### **Serious eye damage/eye irritation**

Causes serious eye damage.

### Components:

#### **Doxycycline Hyclate:**

Remarks : No data available  
May irritate eyes.

### **Respiratory or skin sensitization**

#### **Skin sensitization**

Not classified based on available information.

#### **Respiratory sensitization**

Not classified based on available information.

### Components:

#### **Doxycycline Hyclate:**

Remarks : No data available  
May cause sensitization by skin contact.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Doxycycline Formulation

Version 5.1      Revision Date: 12/08/2025      SDS Number: 6105695-00013      Date of last issue: 06/20/2025  
Date of first issue: 07/06/2020

---

|| May cause sensitization of susceptible persons by skin contact or by inhalation of dust.

### Germ cell mutagenicity

Not classified based on available information.

### Components:

#### Doxycycline Hyclate:

|| Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster cells  
Result: Weakly positive  
Remarks: Based on data from similar materials

Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster cells  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse  
Application Route: Oral  
Result: negative  
Remarks: Based on data from similar materials

### Carcinogenicity

Not classified based on available information.

### Components:

#### Doxycycline Hyclate:

|| Species : Rat  
Application Route : Oral  
Exposure time : 2 Years  
: 200 mg/kg body weight  
Symptoms : females  
Target Organs : Uterus (including cervix)  
Remarks : Benign tumor(s)

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

Not classified based on available information.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Doxycycline Formulation

Version 5.1      Revision Date: 12/08/2025      SDS Number: 6105695-00013      Date of last issue: 06/20/2025  
Date of first issue: 07/06/2020

---

### Components:

#### **Doxycycline Hyclate:**

Effects on fetal development : Test Type: Fertility/early embryonic development  
Species: Rat, females  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 250 mg/kg body weight  
Result: No adverse effects.

Test Type: Fertility/early embryonic development  
Species: Rat, male  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 50 mg/kg body weight  
Symptoms: male reproductive effects

Remarks: Fertility and developmental toxicity tests did not reveal any effect on reproduction.

#### **STOT-single exposure**

Corrosive to the respiratory tract.

#### **STOT-repeated exposure**

Not classified based on available information.

#### **Repeated dose toxicity**

### Components:

#### **Doxycycline Hyclate:**

Species : Rat  
NOAEL : 25 mg/kg  
Application Route : Oral  
Exposure time : 28 d  
Symptoms : Thyroid effects

#### **Aspiration toxicity**

Not classified based on available information.

#### **Experience with human exposure**

### Components:

#### **Doxycycline Hyclate:**

General Information : May cause  
Target Organs: Teeth  
Symptoms: Gastrointestinal disturbance  
Skin contact : Remarks: May cause photosensitization.

#### **Further information**

### Components:

#### **Doxycycline Hyclate:**

Remarks : Well tolerated in clinical use

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Doxycycline Formulation

Version 5.1      Revision Date: 12/08/2025      SDS Number: 6105695-00013      Date of last issue: 06/20/2025  
Date of first issue: 07/06/2020

---

### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Components:

##### **Doxycycline Hyclate:**

Toxicity to algae/aquatic plants : EC10 (Anabaena flos-aquae): 0.251 mg/l  
End point: Growth rate  
Exposure time: 72 h

##### **Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.  
Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

##### **Persistence and degradability**

No data available

##### **Bioaccumulative potential**

##### Components:

##### **Doxycycline Hyclate:**

Partition coefficient: n-octanol/water : log Pow: 0.02

##### **Mobility in soil**

No data available

##### **Other adverse effects**

No data available

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### SECTION 13. DISPOSAL CONSIDERATIONS

#### **Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.  
Do not dispose of waste into sewer.  
Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.

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### SECTION 14. TRANSPORT INFORMATION

#### **International Regulations**

##### **UNRTDG**

UN number : UN 3077  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Doxycycline Hyclate)

Class : 9

---

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Doxycycline Formulation

Version 5.1      Revision Date: 12/08/2025      SDS Number: 6105695-00013      Date of last issue: 06/20/2025  
Date of first issue: 07/06/2020

---

Packing group : III  
Labels : 9  
Environmentally hazardous : yes

### IATA-DGR

UN/ID No. : UN 3077  
Proper shipping name : Environmentally hazardous substance, solid, n.o.s.  
(Doxycycline Hyclate)

Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 956  
Packing instruction (passenger aircraft) : 956  
Environmentally hazardous : yes

### IMDG-Code

UN number : UN 3077  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Doxycycline Hyclate)

Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes

### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR

UN/ID/NA number : UN 3077  
Proper shipping name : Environmentally hazardous substance, solid, n.o.s.  
(Doxycycline Hyclate)

Class : 9  
Packing group : III  
Labels : CLASS 9  
ERG Code : 171  
Marine pollutant : yes(Doxycycline Hyclate)  
Remarks : Above applies only to containers over 119 gallons (450 liters) in case of liquids, or 882 lbs. (400 kg) in case of solids. Shipment by ground under DOT is non-regulated; however it may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Doxycycline Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06/20/2025
5.1	12/08/2025	6105695-00013	Date of first issue: 07/06/2020

---

### SECTION 15. REGULATORY INFORMATION

#### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Skin corrosion or irritation  
Serious eye damage or eye irritation

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### US State Regulations

##### Pennsylvania Right To Know

Lactose	63-42-3
Doxycycline Hyclate	24390-14-5

##### California Prop. 65

WARNING: This product can expose you to chemicals including Doxycycline Hyclate, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### The ingredients of this product are reported in the following inventories:

AICS	: not determined
CA. DSL	: not determined
IECSC	: not determined

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### SECTION 16. OTHER INFORMATION

#### Further information

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Doxycycline Formulation

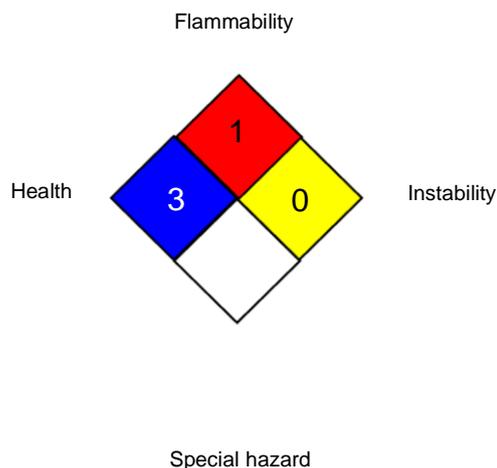
Version  
5.1

Revision Date:  
12/08/2025

SDS Number:  
6105695-00013

Date of last issue: 06/20/2025  
Date of first issue: 07/06/2020

### NFPA 704:



### HMIS® IV:

HEALTH	/	3
FLAMMABILITY		3
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

CAL PEL	:	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
CAL PEL / PEL	:	Permissible exposure limit
OSHA Z-3 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act;

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Doxycycline Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06/20/2025
5.1	12/08/2025	6105695-00013	Date of first issue: 07/06/2020

---

REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Date : 12/08/2025

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8