

1: Identification of substance / mixture

1. Product Identifier

Substance

Product Name **DOXYCYCLINE HCL**
Product Code D43020
CAS Number 10592-13-9
Other Names D43020
IUPAC
MFCD Number
EC/EINECS 234-198-7
REACH Number Index-No

2. Relevant identified uses of the substance or mixture and uses advised against

Research and Development

3. Details of the supplier of the safety data sheet

Melford Laboratories Ltd
Bildeston Road, Chelsworth
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UK



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Email: support@melford.co.uk

4. Emergency telephone number

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2. Hazards Identification

1. Classification of the substance or mixture

H302	Acute Tox. 4	
H315	Skin Irrit. 2	
H319	Eye Irrit. 2	
H335	STOT SE 3	

2. Label elements

Signal Word **Warning**



Hazard Statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary Phrases

Non Hazardous

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

3. Composition / Information on Ingredients

1. Substances

Product Name	Hazards	Concentration
DOXYCYCLINE HCL		
CAS Number: 10592-13-9 EC/EINECS: 234-198-7	H302, H315, H319, H335 Acute Tox. 4, Eye Irrit. 2, Skin Irrit. 2, STOT SE 3	<=100%

4. First Aid Measures

1. Description of first aid measures

<i>Skin Contact</i>	Wash off with soap and plenty of water. Consult a doctor.
<i>Eye Contact</i>	Rinse opened eye for several minutes under running water. Consult a doctor.
<i>Ingestion</i>	Wash out mouth with water. Consult a doctor.
<i>Inhalation</i>	Remove casualty from exposure ensuring one's own safety whilst doing so. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

2. Most important symptoms and effects

The most important known symptoms and effects are described in section 11

3. Indication of any immediate medical attention

no data available

5. Firefighting measures

1. Extinguishing Media

Suitable Water spray.
Carbon dioxide.
Alcohol or polymer foam.
Dry chemical powder.

Unsuitable no data available

2. Special Hazards arising from the substance or mixture

Carbon monoxide (CO), Carbon dioxide (CO₂),
Nitrogen oxides (NO_x), Hydrogen chloride gas.

3. Advice for Fire Fighters

no data available

6. Accidental Release Measures

1. Personal Precautions

Refer to section 8 of SDS for personal protection details.
Avoid dust formation. Avoid breathing vapours, mist or gas.

2. Environmental Precautions

Do not discharge into drains or rivers.

3. Methods & Materials

Sweep up and shovel.
Transfer to a closable, labelled salvage container for disposal by an appropriate method.

4. Preventing the occurrence of secondary hazards.

Clean up all spills immediately. Wear suitable PPE.

7. Handling and Storage

1. Personal Precautions

<i>Safe Handling</i>	Use in a chemical fume hood, with air supplied by an independent system Avoid direct contact with the substance. Avoid the formation or spread of dust in the air.
<i>Protection against explosions and fires</i>	sNormal measures for preventive fire protection.

2. Conditions for safe storage, including any incompatibilities

<i>Managing Storage Risks</i>	Store cold: 2-8° C.
<i>Storage Controls</i>	No special requirements
<i>Maintaining Integrity</i>	Store away from oxidising agents
<i>Other advice</i>	no further information available

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

<i>General protective and hygiene measures</i>	The standard precautionary measures should be adhered to when handling Wash hands during breaks and at the end of handling the material
<i>Engineering measures</i>	Use in a chemical fume hood, with air supplied by an independent system
<i>Eye / Face Protection</i>	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)
<i>Hand protection</i>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it
<i>Respiratory protection</i>	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. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
<i>Skin protection</i>	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<i>Other personal protection advice</i>	no data available

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	Yellowish powder
Odour	No Data Available
Odour threshold	No Data Available
PH	No Data Available
Melting point / Freezing point	210°C
Initial boiling point and boiling range	No Data Available

Flash point	No Data Available
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available
Vapour pressure	No Data Available
Vapour density	No Data Available
Relative density	No Data Available
Solubility(ies):	No Data Available
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available

2. Other Information

No additional information available

10. Stability and Reactivity

1. Reactivity

no data available

2. Stability

Stable under recommended storage conditions.

3. Possibility of Hazardous Reactions

no data available

4. Conditions to Avoid

no data available

5. Incompatible Materials

Strong oxidizing agents.

6. Hazardous Decomposition Products

no data available

11. Toxicology information

1. Information

Acute Toxicity LD50 Oral 1700 mg/kg (Rat)

Skin corrosion/irritation no data available

*Serious eye
Damage/irritation* no data available

*Respiratory or skin
sensitisation* no data available

Germ Cell mutagenicity no data available

Carcinogenicity no data available

Reproductive toxicity no data available

STOT-single exposure no data available

STOT-repeated exposure no data available

Aspiration hazard

no data available

2. Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

12. Ecological Information

1. Toxicity

no data available

2. Persistence and degradability

no data available

3. Bio-Accumulative Potential

no data available

4. Mobility and Soil

no data available

5. Results of PBT & vPvB assessment

no data available

6. Other adverse effects

no data available

13. Disposal Considerations

1. Waste Treatment Methods

Disposal Operations Consult state, local or national regulations for proper disposal.

Disposal of Packaging Disposal must be made according to official regulations.

14. Transport Information

Air (ICAO)

Not classified as hazardous for transport

Road (ADR)

Not classified as hazardous for transport

Sea (IMDG)

Not classified as hazardous for transport

15. Safety, health, environmental and national regulations

1. Safety, health, environmental and national regulations:

product is not subject to any additional regulations or provisions

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

ADR: Accord Europeen sur le transport des marchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)
RID:Reglement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association
ICAO:International Civil Aviation Organization
ICAO-TI: Technical Instructions by the ICAO
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CAS:Chemical Abstracts Service

3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.