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MATERIAL SAFETY DATA SHEET

Vancomycin Hydrochloride

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

1.1 Product identifiers :
Product name : Vancomycin Hydrochloride
Product number : 0001404939
Brand : Discovery
Reach No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require registration or the registration is envisaged for a later Registration deadline.
Cas No. : 1404-93-9

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses : laboratory chemicals, manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company:	Discovery Fine Chemicals Ltd Unit 4A, Old Forge Road, Ferndown Ind. Estate, Wimborne, Dorset, BH21 7RR. United Kingdom
Telephone:	+44 (0)1202 874517
Fax:	+44 (0)845 0944 385
E-mail:	discovery@discofinechem.com

1.4 Emergency telephone : +44 (0)7912 646956

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Respiratory sensitization (category 1) H334
Skin sensitization (category 1) H317
For the full text of the H-Statements mentioned in this section see section 16
Classification according to EU Directives 67/548/EEC or 1999/45/EC
2.2 Label elements
Labelling according Regulation (EC) No 1272/2008
Pictogram

Signal word: Danger
Hazard statement(s)
H317 may cause an allergic skin reaction.
H334 may cause allergy or asthma symptoms or breathing difficulties if inhaled
Precautionary statement(s)
P261 Avoid breathing dust
P272 contaminated work clothing should not be allowed out of the work place
P280 wear protective gloves
P284 wear respiratory protection
P301-P352 If on SKIN wash with plenty of water
P333-P313 If skin irritation or rash occurs get medical advice

2.3 Other hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT),or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Formula: C66H75CI2N9O24 ·HCI
Molecular Weight: 1485.71 g/mol
Cas No: 1404-93-9

Component	Classification	Concentration
Vancomycin HcI CAS-No.1404-93-9	Resp. sens 1, Skin .sens 1 H334, H317	<=100%

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures
General advice
Show this safety data sheet to the doctor in attendance.
If inhaled - move person into fresh air. Call a doctor
In case of skin contact – Take off all contaminated clothing**.** Rinse skin with water. Consult a physician.
In case of eye contact – Flush eyes with plenty of water. Remove contact lenses.
If swallowed
Make victim drink plenty of water. Consult a doctor.
4.2 Most important symptoms and effects, both acute and delayed – the most important known symptoms and effects are described in the labelling (see section 2.2 and/or in section 11.
4.3 Indication of any immediate medical attention and special treatment needed
no data available

5. FIREFIGHTING MEASURES
5.1 Extinguishing media
Suitable extinguishing media – water foam carbon dioxide (CO2) dry powder
Unsuitable extinguishing media – for this substance no limitations of extinguishing agents are given.
5.2 Special hazards arising from the substance or mixture
Carbon oxides
Nitrogen oxides (NOX)
Hydrogen chloride gas
Combstible. Development of hazardous combustion gases or vapours of extinguishing agents are given
5.3 Advice for firefighters – stay in danger area with self contained breathing apparatus.
5.4 Further information - no data available

6. ACCIDENTAL RELEASE MEASURES
6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment.Avoid dust formation. Avoid breathing vapours,mist or gas.
Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.
6.2 Environmental precautions - Do not let product enter drains.
6.3 Methods and materials for containment and cleaning up – pick up and arrange disposal without creating dust.sweep and shovel up.Keep in suitable closed containers for disposal.
6.4 Reference to other sections - For disposal see section 13.

7. HANDLING AND STORAGE
7.1 Precautions for safe handling
Advice on safe handling
Work under hood. Do not inhale substance
Hygiene measures
Immediately change contaminated clothing.provide skin protection. Wash hands and face after handling. For precautions see section 2.2

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Recommended storage temperature: 2 - 8 °C. Product is sensitive to light and moisture.
Storage class (TRGS510) : 13: combustible solids.
7.3 Specific end use(s)
Apart from the uses mentioned in section 1.1 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1 Control parameters
Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.
8.2 Exposure controls
Appropriate engineering controls - Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment
Eye/face protection - Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection - Handle with gloves. Gloves must be inspected prior to use.
Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril®
Splash protection
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril®
Body Protection - Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection -For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES
9.1 Information on basic physical and chemical properties
a) Appearance - Form: powder, Colour: off white to light pink
b) Odour - no data available
c) Odour Threshold - no data available
d) Melting point/freezing point - Melting point/range: - no data available
e) Initial boiling point and boiling range - no data available
f) Flammability (solid, gas) - no data available
g) Upper/lower flammability or explosive limits - no data available
h) Flash point – not applicable
i) Autoignition temperature - no data available
j) Decomposition temperature - no data avaialble
k) pH - 7.5 – 9.0
l) Viscosity – viscosity,kinematic: no data available
- viscosity dynamic: no data available
m) Water solubility – 50g/l
n) Partition coefficient: no data available .
o) Vapour pressure - no data available
p) Density - no data available
Relative density – no data available
q) Relative vapour density - no data available
r) Particle characteristics - no data available
s) Explosive properties – no data available
t) Oxidizing properties - no data available
9.2 Other safety information - no data available

10. STABILITY AND REACTIVITY
10.1 Reactivity
The following applies in general to flammable organic substances and mixtures : in correspondingly fine distribution, when whirled up a dust explosion potentional may generally be assumed
10.2 Chemical stability
The product is chemically stable under recommended storage conditions
10.3 Possibility of hazardous reactions
Violent reactions possible with : strong oxidizing agents
10.4 Conditions to avoid
no data available
10.5 Incompatible materials
Strong oxidizing agents
10.6 Hazardous decomposition products
In the event of fire see section 5

11. TOXICOLOGICAL INFORMATION
11.1 Information on toxicological effects
Acute toxicity
LD50 Oral - rat – 10,000mg/kg
Inhalation – no data available
Dermal – no data available
Skin corrosion/irritation - no data available
Serious eye damage/eye irritation
no data available
Respiratory or skin sensitization
May cause allergic respiratory and skin reactions.
Germ cell mutagenicity
No data available
Carcinogenicity
No data available
Reproductive toxicity
No data available
Specific target organ toxicity - single exposure
No data available
Specific target organ toxicity - repeated exposure
No data available
Aspiration hazard
No data available
11.2 Additional Information
Endocrine disrupting properties
Product
Assessment
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commision Regulation (EU) 2018/605 at levels of 0.1% or higher.
RTECS: YW4380000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Liver – irregularities- based on human evidence

12. ECOLOGICAL INFORMATION
12.1 Toxicity - no data available
12.2 Persistence and degradability - no data available
12.3 Bio-accumulative potential - no data available
12.4 Mobility in soil - no data available
12.5 Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT),or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Endocrine disrupting properties
Product

Assessment
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commision Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself according to notice directive on waste 2008/98/EC.

14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine Pollutant: no IATA: no

14.6 Special precautions for user

Further Information

Not classified as dangerous in the meaning of transport regulations

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regualtions where applicable.
Take note of DIR 94/33/EC on the protection of young people at work

15.2 Chemical Safety Assessment –

For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

Text of H-code(s) and R-phrase(s) mentioned in Section 2 and 3

H317 may cause an allergic skin reaction.
H334 may cause allergy or asthma symptoms or breathing difficulties if inhaled

Further information

WARRANTY

The above information is believed to be correct but 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.

APPENDIX
ABBREVIATIONS FULL TEXT

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
ALARP As low as is reasonably practicable
CAS Chemical Abstracts Service
CLP Classification, Labelling and Packaging Regulations
COSHH Control of Substances Hazardous to Health EC Number European Community Number
EC50 Effective Concentration 50%
ECHA European Chemicals Agency
ELINCS European List of Notified Chemical Substances
EINECS European Inventory of Existing Commercial Chemical Substances GHS Globally Harmonised System HSE Health & Safety Executive UK
IATA International Air Transport Association
IM Intramuscular
IMDG The International Maritime Dangerous Goods Code
IP Intraperitoneal
IV Intravascular
LD50 Lethal Dose 50%
LOEC Lowest Observable Effective Concentration
LTEL Long Term Exposure Limit
NOEC No Observable Effective Concentration
OECD Organisation for Economic Cooperations and Development
OSHA European Agency for Safety and Health at work
PBT Persistent Bioaccumulative and Toxic substance
PPE Personal Protective Equipment
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals
RID Regulations Concerning the International Carriage of Dangerous Goods by Rail
SC Subcutaneous
SDS Safety Data Sheet
SIEF Substance Information Exchange Forum
STEL Short Term Exposure Limit
STOT (RE) Specific Target Organ Toxicity – repeated exposure
STOT (SE) Specific Target Organ Toxicity – single exposure
SVHC Substance of Very High Concern
VOC Volatile Organic Compounds
vPvB Very Persistent and Very Bioaccumulative
WEL Workplace Exposure Limits