

SAFETY DATA SHEET

Date of Original Issue: 30SEP2005Revision Number:12Revision: 30NOV2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: Vancomycin Hydrochloride CAS #: 1404-93-9 EC/List#: 604-193-8 INDEX #: Not listed REACH reg. #: not registered, exempted.

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

Product Use: Pharmaceutical product used as antibiotic agent.

1.3. Details of the supplier of the safety data sheet

Manufacturer & Distributor Xellia Pharmaceuticals Ltd. Szállás utca 1-3 Budapest H-1107 Hungary +36 1 260 4130 Responsible person for the safety data sheet (e-mail): sales@xellia.com

1.4. Emergency telephone number

Poison Control Center (USA):+1 877 800 5553CHEMTREC (USA Transportation):+1 800 424 9300CANUTREC (Canadian Transportation):+1 613 996 6666http://apps.who.int/poisoncentres/

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Eye Irritation – Category 2; Specific Target Organ Toxicity (Single Exposure) - Category 3; Skin Irritation – Category 2; Skin Sensitization – Category 1

2.2. Label elements



H315: Causes skin irritation.H317: May cause an allergic skin reaction.H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.P264: Wash hands thoroughly after handling.P265: Do not touch eyes.P271: Use only outdoors or in a well-ventilated area.



P272: Contaminated work clothing should not be P332+P317: If skin irritation occurs: Get emergency allowed out of the workplace. medical help. P280: Wear protective gloves/protective clothing/eye P333+P313: If skin irritation or rash occurs: Get protection/face protection. medical advice/attention. P302+P352: If on skin: Wash with plenty of water P337+P317: If eye irritation persists: Get emergency P304+P340: If inhaled: Remove person to fresh air medical help. and keep comfortable for breathing. P362+P364: Take off contaminated clothing and P305+P351+P338: If in eyes: Rinse cautiously with wash it before reuse. water for several minutes. Remove contact lenses, if P403+P233: Store in a well-ventilated place. Keep present and easy to do. Continue rinsing. container tightly closed. P319: Get medical help if you feel unwell. P405: Store locked up. P501: Dispose of contents/container appropriately P321: Specific treatment (see section 4)

2.3. Other hazards

The substance is not considered PBT/vPvB according to criteria in Annex XIII neither has properties of endocrine disruption.

SECTION 3: Composition/information on ingredients

3.1. Substances

Active component	CAS #	EC/List #
Vancomycin Hydrochloride	1404-93-9	604-193-8

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: Remove the injured person from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health practitioner or other licensed health care provider familiar with chemical exposure in the workplace. If the person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons with severe hypersensitivity (anaphylactic) reactions should receive immediate medical attention.

Eye contact: Flush eyes for 15 minutes with plenty of water. Remove contact lenses, if any, and this is easy to do. Continue rinsing. Consult a specialist if irritation develops and persists.

Skin contact: Remove contaminated clothing and clean before reuse. Wash all exposed areas of skin with plenty of soap and water. Get medical attention if irritation or rash develops. In case of eczema or other skin diseases, consult a doctor.

Ingestion: After ingestion of large amounts, call a poison center or doctor. Do not induce vomiting. Wash your mouth. Do not give anything orally to an unconscious person. Consult a doctor if symptoms occur. When vomiting, keep your head low so that stomach contents do not get into the lungs.

Inhalation: The person concerned should be taken out to fresh air and placed in a resting position such that he or she can breathe easily. If the injured person is unconscious and not breathing: Ensure that there are no obstructions in the airways and have artificial respiration performed by appropriately trained persons. If necessary, apply external heart massage and consult a doctor. If breathing remains difficult, consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed.

Symptoms and Effects of Exposure:

For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information.



Medical Conditions Aggravated by Exposure: None

4.3. Indication of any immediate medical attention and special treatment needed.

General support measures, symptomatic treatment.

In case of discomfort or unconsciousness: Show this safety data sheet to a physician or emergency center, treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Water, carbon dioxide, dry chemical, foam, or other alternatives. **Fire extinguishing agents not suitable for safety reasons:** none.

5.2. Special hazards arising from the substance or mixture.

General hazards: May be combustible at high temperature. Hazardous combustion products: Emits toxic fumes of carbon monoxide, carbon dioxide, and nitrogen oxides. Unsuitable extinguishing media: None Specific methods: Not available.

5.3. Advice for firefighters

Wear appropriate protective equipment. Use water spray to cool unopened containers. As with any fire, evacuate personnel to a safe area.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures

Keep away unnecessary staff. Wear appropriate protective equipment. Avoid inhaling dust from spills. Do not touch damaged containers or spills unless you wear appropriate protective clothing. Ensure adequate ventilation. Dust deposits should not accumulate on surfaces, as they can form explosive mixtures if released into the atmosphere in appropriate concentrations. For personal protection, see Section 8 of the Safety Data Sheet.

6.2. Environmental precautions

Water spill: In case of intrusion into inland waters or sewers, notify the competent authorities. Do not allow to enter sewer/surface water/groundwater.

6.3. Methods and materials for containment and cleaning up.

Vacuum material with appropriate dust collection in place. Be aware of potential for dust explosion when using electrical equipment. If a vacuum is not available, lightly mist material and remove by sweeping or wet wiping. Wear appropriate equipment including eye protection, to avoid exposure.

Release notes: If the spill could potentially enter any waterway, including intermittent dry creeks, contact the local authorities.

6.4. Reference to other sections

See section 1 for emergency contact information, section 8 for personal protective equipment details, and section 13 for disposal information.



SECTION 7: Handling and storage

7.1. Precautions for safe handling

For large quantities: Engineering controls are recommended to ensure adequate ventilation such that exposures do not exceed TWA for an eight-hour exposure. With adequate ventilation, respiratory protection may not be needed. In the absence of adequate ventilation, suitable respiratory protection is required. The need for additional personal protective equipment including respirators, eye and skin protection should be based on a job-specific risk assessment. Additional personal protective equipment may include chemical-resistant gloves and body covering, goggles, and face shield. Adequate eye protection is always required.

For small quantities: Keep dry and away from sources of ignition.

Work hygienic practices: Keep the container tightly closed when not use. Facilities storing or using this material should be equipped with an emergency eyewash and safety shower. Good personal hygiene practices should always be followed.

7.2. Conditions for safe storage, including any incompatibilities.

Store securely, inaccessible for unauthorized persons. Keep dry and away from sources of ignition. Store at 2 - $8^{\circ}C$ (35.6 - 46.4°F) in original, unopened package or container.

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL for the substance: 0.2 mg/m3.

8.2. Exposure controls

Appropriate engineering controls:

For laboratory operations, use a local exhaust ventilation or ventilated chamber for high-energy operations such as shredding. Choose and use enclosed equipment and personal protective equipment based on the risk assessment. During transportation, cover all containers for storing solutions and suspensions. In case of dust generation, exhaust ventilation or ensuring general ventilation of the room.

Personal protective equipment:

Eyes protection: If contact is likely, safety glasses with lateral protection must be used.

Hand protection: Wear chemically resistant gloves (tested according to EN 374) while completing training specific to the specific activity. The gloves should be regularly inspected and replaced for wear, tearing or contamination. **Skin:** Laboratory clothes.

Respiratory protection: As a rule, a respirator is not required for laboratory operations. Use a tight-fitting full-face respirator with HEPA filters to clean spills. Respiratory protection adapted to the task and the level of existing technical controls.

Comments: This material may cause sensitization or an allergic response with minimal exposure. Under conditions of overexposure, the material may be hazardous.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a)	Physical state	Solid Powder
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b)	Color	white to pale brown
c)	Odor	odorless
d)	Melting point/freezing point	not available - decomposes
e)	Boiling point or starting boiling point and boiling point range	not applicable for solids
f)	Flammability	can be burned but not classified
g)	Upper/lower flammability or explosive limits	not applicable for solids
h)	Flash point	not applicable for solids
i)	Auto-ignition temperature	no measured data available
j)	Decomposition temperature	no measured data available
k)	рН	2.5-4,5 in 5% aqueous solution
1)	Kinematic viscosity	not applicable for solids
m)	Solubility	Soluble in water
n)	Partition coefficient: N-octanol/water (log value)	no measured data available
o)	Vapor pressure	No measured data available
p)	Density and/or relative density	No measured data available
q)	Relative vapor density	not applicable for solids
r)	Particle characteristics	No measured data available

9.2. Other information

No further relevant information is available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable when used as intended.

10.3. Possibility of hazardous reactions

Under normal conditions, they are not known.

10.4. Conditions to avoid.

Incompatible materials, dust generation, excess heat, alkaline materials, strong oxidants, exposure to moist air or water.

10.5. Incompatible materials

Strong oxidants, moisture.

10.6. Hazardous decomposition products

Nitrogen oxides, carbon monoxide, carbon dioxide.



SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

a) Acute toxicity

Acute oral. LD50: >5000 mg/kg (mouse).

Acute dermal LD50 >500 mg/kg (rabbit)

Acute inhalation LD50: 3080 mg/m3 (1h, rat)

Based on the available data, the classification criteria are not met.

b) Skin corrosion/skin irritation: Irritant.

c) Severe eye damage/irritation: Irritant (rabbit).

d) Respiratory or skin sensitization: Skin over sensitizing effects were experienced at therapeutic doses.

e) Germ cell mutagenicity: Vancomycin was not mutagenic in vitro in the mouse lymphoma forward mutation assay or the primary rat hepatocyte unscheduled DNA synthesis assay or in vivo in the Chinese hamster sister chromatid exchange assay or the mouse micronucleus assay. Based on the available data, the classification criteria are not met.

f) Carcinogenicity: No test is available.

g) Reproductive toxicity: Developmental toxicology studies in rats and rabbits were performed at doses up to 200 and 120 mg/kg/d, respectively. No developmental toxicity was observed in rat in spite of maternal toxicity. ot classified. Use of vancomycin during human pregnancy without adverse effect has been described. Based on the available data, the classification criteria are not met.

h) Single post-exposure specific target organ toxicity (STOT):

Nervous system, heart, blood, kidney, and digestive system. Irritation to the inhalation organ.

i) Specific target organ toxicity (STOT) after repeated exposure:

Based on the available data, the classification criteria are not met.

j) **Aspiration hazard:** Based on its chemical structure, the product is not classified.

11.2. Information on other hazards:

Pharmacologically active substance.

SECTION 12: Ecological information

12.1. Toxicity

Not available.

12.2. Persistence and degradability

No applicable information found. Releases to the environment should be avoided.

12.3. Bioaccumulative potential

No applicable information found.

12.4. Mobility in soil

No applicable information found.

12.5. Results of PBT and vPvB assessment

The substance shall not be considered PBT/vPvB according to the criteria in Annex XIII.

12.6. Endocrine disrupting properties

No such properties are known to the substance.



12.7. Other adverse effects

The substance is possibly harmful for the aquatic environment, due to its antibiotic properties.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Do not empty into drain. Dispose of any cleanup materials and waste residue according to applicable laws and regulations.

SECTION 14: Transport information

14.1. UN Number or ID number

Not Regulated.

14.2. UN proper shipping name

Not Regulated.

14.3. Transport hazard class(es)

Not Regulated.

14.4. Packing group

Not Regulated.

14.5. Environmental hazards

Not Regulated.

14.6. Special precautions for user

Not Regulated.

14.7. Maritime transport in bulk according to IMO instruments

Not relevant. USA DOT (DEPARTMENT OF TRANSPORTATION) Proper Shipping Name: Not regulated. CANADA TRANSPORT OF DANGEROUS GOODS Proper Shipping Name: Not regulated. AIR (ICAO/IATA) Proper Shipping Name: Not regulated. VESSEL (IMO/IMDG) Proper Shipping Name: Not regulated. EUROPEAN TRANSPORTATION: ADR/RID HAZARD CLASSIFICATION: Not Regulated. U.S. CUSTOMS HARMONIZATION NUMBER: Not Available.



SECTION 15: Regulatory information

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

EUROPEAN UNION

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work: Must not be used by persons under 18 years of age.

Council Directive 92/85/EEC of 19 October 1992 on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding:

The employer shall assess the working conditions and, if there is any risk to the safety or health and any effects on the pregnancy or breastfeeding of workers, take the necessary measures to adjust the working conditions.

Implementation of directive 2001/82/EC of the European Parliament and of the council of 6 November 2001 in the Community code relating to veterinary medical products:

<u>Denmark:</u> The Danish Medicines Agency (Lægemiddelstyrelsen) must be notified that this substance is produced, imported, exported, stored, sold, delivered, packed, possessed or in other ways handled in Denmark (Bekendtgørelse nr. 1226 af 7 December 2005 om omgang med visse stoffer og produkter hvis indhold kan anvendes som lægemidler til dyr.).

For other countries: Please contact national authorities regarding notification of the substance.

UNITED STATES FEDERAL REGULATIONS

Superfund Amendments and Reauthorization Act (SARA) Title III 311/312 hazard categories:Fire: NoPressure generating: NoReactivity: NoAcute: NoChronic: No 313Reportable Ingredients: Not ListedTitle III notes:Comprehensive Response, Compensation, and Liability Act (CERCLA)CERCLA RQ: Not listed.Toxic Substances Control Act (TSCA)TSCA Regulatory: ExemptNational Response Center: US Coast Guard National Center Response Telephone +1 800 424 8802.

UNITED STATES STATE REGULATIONS

California Proposition 65: This product does not contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

CANADA

Workplace Hazardous Material Information System (WHMIS) hazard symbol and classification WHMIS Controlled: Not regulated.

Canadian Environmental Protection Act: Not listed.

15.2. Chemical safety assessment

No CSR is compiled because the substance is exempted.

SECTION 16: Other information

Reason for issue: Update to include 2020/878 EU Commission regulation. Updated some physical parameters. **Disclaimer:** Information given herein is offered in good faith as accurate, but without guarantee. Nothing is intended as a recommendation for uses that infringe valid patents or as extending license under valid patents.