

Penicillin V Calcium dihydrate Phenoxymethylpenicillin Calcium dihydrate

Material Safety Data Sheet

Revision Date: January 04th, 2023

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

1.1. Product identifier

Product name: Penicillin V Calcium dihydrate; Phenoxymethylpenicillin Calcium dihydrate

CAS: 73368-74-8
UNII: JJZ37N4V0X
INDEX: None.

REACH reg.: Deadlines according to REACH art. 23, has not expired.

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

Use: Antibiotic

Product name: Penicillin V Calcium dihydrate; Phenoxymethylpenicillin Calcium dihydrate

Chemical family: Beta-lactam antibiotics, penicillins **Synonyms:** Phenoxymethylpenicillin Calcium

1.3. Details of the supplier of the safety data sheet

Name: BIOTIKA a.s.

Address: Slovenska Lupca 566,

PIN 976 13 Slovak Republic

 Tel.:
 00421/48/4368 111

 Fax:
 00421/48/418 7060

 E-mail:
 biotika@biotika.eu.com

1.4. Emergency telephone number

Biotika a.s.: 00421 48 4368 111



2. **SECTION:** Hazards identification.

2.1. Classification of the substance or mixture

!	GHS07	Acute Tox.	4	H302 Harmful if swallowed.
		Skin Sens.	1	H317 May cause an allergic skin reaction.

GHS08 Health hazard	Resp. Sens.	1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	Muta.	2	H341 Suspected of causing genetic defects.

2.2. Label elements:

GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



Signal word

Danger

Hazard statements

H302	Harmful if swallowed.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.

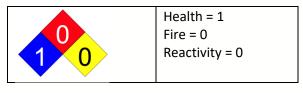


Precautionary statements

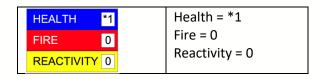
6	lutionary stateme	ents		
	Obtain special instructions before use.			
		P202 Do not handle until all safety precautions have been read and		
		understood.		
	P261	Avoid breathing dust/fume/gas/mist/vapors/spray		
	P264	Wash thoroughly after handling.		
	P270	Do not eat, drink or smoke when using this product.		
	P272	Contaminated work clothing must not be allowed out of the workplace.		
	P280	Wear protective gloves/protective clothing/eye protection/face protection.		
	P284	[In case of inadequate ventilation] wear respiratory protection.		
	P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.		
	P330	Rinse mouth.		
	P302+P352	If on skin: Wash with plenty of water.		
	P304+P341	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.		
	P308+P313	If exposed or concerned: Get medical advice/attention.		
	P321	Specific treatment (see on this label).		
	P333+P313	If skin irritation or rash occurs: Get medical advice/attention.		
	P342+P311	If experiencing respiratory symptoms: Call a poison center/doctor.		
	P363	Wash contaminated clothing before reuse.		
	P405	Store locked up.		
	P501	Dispose of contents/container in accordance with		
		local/regional/national/international regulations.		

Classification system:

NFPA rating (scale 0 - 4)



HMIS-ratings (scale 0 - 4)



2.3. Other hazards:

Results of PBT and vPvB assessment:

The substance is not considered PBT/vPvB according to criteria in Annex XIII.



3. SECTION: Composition/Information on ingredients.

3.1. Substances:

Chemical characterization (substance):

CAS: 73368-74-8

Description: Penicillin V (calcium dihydrate salt)

UNII: JJZ37N4V0X

3.2. Mixtures:

N/A

4. SECTION: First aid measures.

4.1. Description of first aid measures:

General information:

Symptoms of poisoning may even occur after several hours; therefore, medical observation for at least 48 hours after the accident.

After eye contact:

Rinse opened eye for several minutes under running water.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

After swallowing:

Immediately call a doctor.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably inside position for transportation.

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

May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. No further relevant information available.

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

No further relevant information available

Antidote information:

No specific antidote available.

5. **SECTION:** Firefighting media.

5.1. Extinguishing media:

Use fire fighting measures that suit the environment.

A solid water stream may be inefficient.



5.2. Special hazards arising from the substance or mixture:

No further relevant information available.

5.3. Advice for firefighters:

No special measures required.

6. **SECTION:** Accidental release measures.

6.1. Personal precautions, protective equipment, and emergency response:

Not required.

6.2. Environmental precautions:

Do not allow to enter sewers / surface or ground water.

6.3. Methods and materials for containment and cleaning up:

Ensure adequate ventilation. Use personal protective equipment. Should not be released into the environment. Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

6.4. References to other sections:

PAC-1: Substance is not listed. PAC-2: Substance is not listed. PAC-3: Substance is not listed.

7. **SECTION:** Handling and storage.

7.1. Precautions for safe handling:

Usual safety precautions should be observed to ensure safe handling.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Avoid contact with eyes and skin.

Do not inhale dust/smoke/mist.

Wash hands before breaks and at the end of work.

Remove and wash contaminated clothing before re-use.

Smoking, eating and drinking should be prohibited in application area.

7.2. Conditions for safe storage, including any incompatibilities:

Store only in the original container tightly sealed.

Keep cool, dry, ventilated storage and closed containers.

Protect from light.

Keep out of sunlight.

Keep away from heat.

Water sensitive materials.

Protect from moisture.



7.3. Specific end uses:

No further relevant information available.

8. SECTION: Exposure control / personal protection.

8.1. Control parameters:

Exposure limits and guidelines

Not required.

The lists that were valid during the creation were used as basis.

8.2. Exposure controls:

Appropriate engineering controls:

Use engineering controls to reduce air contamination

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of wor

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye and face protection:

Not required.

9. **SECTION:** Physical and chemical properties.

9.1. Information on basic physical and chemical properties:

Physical state: Solid.

Color:Not determined.Odor:Characteristic.Odor threshold:Not determined.

Structural Formula: C32H40N4O12S2 • Ca • 2 H20

Molecular Weight: 812.9 g/mol pH-value: Not applicable.



Melting point/Melting range: Undetermined. Boiling point/Boiling range: Undetermined. Flash point: Not applicable.

Flammability (solid, gaseous): Product is not flammable.

Decomposition temperature: Not determined. Auto igniting: Not determined.

Danger of explosion: Product does not present an explosion

hazard.

Not determined. Explosion limits: Lower: Upper: Not determined. Vapor pressure: Not applicable. Density: Not determined. Relative density: Not determined. Not applicable. Vapor density: Evaporation rate: Not applicable. Solubility in / Miscibility with Water: Not determined. Partition coefficient (n-octanol/water): Not determined. Viscosity: Dynamic: Not applicable. Kinematic: Not applicable. Solubility: Not applicable.

Other information: 9.2.

No further relevant information available.

10. SECTION: Stability and reactivity.

10.1. Reactivity:

No further relevant information available.

10.2. Chemical stability:

Stable at normal temperatures and pressures.

10.3. Possibility of hazardous reactions:

No dangerous reactions known.

10.4. Conditions to avoid:

No further relevant information available.

10.5. Incompatible materials:

Strong oxidizing agents.

10.6. Hazardous decomposition products:

Carbon dioxide, carbon monoxide, nitrogen oxides, nitrogen oxides, sulfur oxides.

11. SECTION: **Toxicological information.**

RTECS Number: Not applicable. **Acute dermal LD50:** Not determined. Acute oral LD50: Not determined. Not determined.

Not determined.

Acute intraperitoneal LD 50:

Not determined.

Acute subcutaneous LD50: Not determined. **Acute intravenous LD50:** Not determined.



Acute inhalation LC50: Not determined.

Eye effects: No irritating effect.

Skin effects: No irritating effect.

Sensitization: Sensitization possible through inhalation.

Sensitization possible through skin contact.

Listed by IARC: No
Listed by NTP: No
Listed by OSHA: No

12. **SECTION:** Ecological information.

12.1. Toxicity:

Aquatic toxicity:

No further relevant information available.

12.2. Persistence and degradability:

No applicable information found.

12.3. Bioaccumulative potential:

No applicable information found.

12.4. Mobility in soil:

No applicable information found.

Additional ecological information:

Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5. Results of PBT and vPvB assessment:

The substance is not considered PBT/vPvB according to criteria in Annex XIII.

12.6. Other adverse effects:

No applicable information found.

13. SECTION: Disposal consideration.

13.1. Waste treatment methods:

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.



14. **SECTION:** Transport information. 14.1. UN 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 applicable. 14.6. Special precautions for user: Not applicable. 14.7. Transport in bulk according to Annex II MARPOL 73/78 and the IBC Code: Not applicable. 15. SECTION: Regulatory information. 15.1. Safety, health and environmental regulation/legislation specific for the substance or mixture: No further relevant information available. Sara Section 355 (extremely hazardous substances): Substance is not listed. **Section 313 (Specific toxic chemical listings):** Substance is not listed. **TSCA (Toxic Substances Control Act): ACTIVE** Hazardous Air Pollutants: Substance is not listed. **Proposition 65** Chemicals known to cause cancer: Substance is not listed. Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

Chemicals known to cause reproductive toxicity for males:



Substance is not listed.

Chemicals known to cause developmental toxicity:

Substance is not listed.

Carcinogenic categories

EPA (Environmental Protection Agency)

Substance is not listed.

TLV (Threshold Limit Value)

Substance is not listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

15.2. Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16. **SECTION:** Other information.

Reason for issue: EC regulation, REACH and CLP

Contact Information: See Section 1

Revision summary: This document has undergone significant changes and

should be reviewed in its entirety.

	HMIS RATING	NFPA RATING
Health	ND	ND
Flammability	ND	ND
Physical hazard	ND	ND
Personal protection	ND	ND
Incompatibilities	ND	ND

Data sources:

Micromedex DrugDex; Mosby's Drug Consult; Physicians Desk Reference; RTECS, PubChem, Kucers'The use of antibiotics, ECHA.

Disclaimer:

Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user. Nothing is intended as a recommendation for uses that infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.

Glossary:

ACGIH – American Conference of Governmental Hygienists

AIHA – American Industrial Hygiene Association

BEI – Biological Exposure Index

CAS – Chemical Abstract Service Registry Number

CSR – Chemical Safety Report

CERCLA – Comprehensive Environmental Response Compensation and Liability Act of 1989

CHEMTREC – Chemical Transportation Emergency Center



DOT - Department of Transportation (USA)

EC – European Community

EINECS - European Inventory of Existing Chemical Substances

ELINCS - European List of New Chemical Substances

EPA – Environmental Protection Agency

FDA – United States Food and Drug Administration

HEPA- High Efficiency Particulate Air (Filter)

HMIS - Hazardous Material Information System

IARC- International Agency on Research for Cancer

ICAO/IATA – International Civil Aviation Organization/International Air Transport Association

IMO – International Maritime Organization

LEL - Lower Explosive Limit

MSDS - Material Safety Data Sheet

MSHA – Mine Safety and Health Administration

NA - Not Applicable

NADA - New Animal Drug Application

NAIF - No Applicable Information Found

NCI - National Cancer Institute

ND - Not Determined

NFPA - National Fire Protection Association

NIOSH – National Institute for Occupational Health and Safety

NL - Not Listed

NOS - Not Otherwise Specified

NTP - National Toxicology Program

OEL - Occupational Exposure Limit

OSHA – Occupational Safety and Health Administration

PEL – Permissible Exposure Limit (USA)

RCRA - Resource Conservation and Recovery Act

RQ - Reportable Quantity

RTECS - Registry of Toxic Effects of Chemical Substances

SARA - Superfund Amendments and Reauthorization Act

STEL - Short Term Exposure Limit

TLV - Threshold Limit Value

TPQ - Threshold Planning Quantity

TSCA - Toxic Substances Control Act

TWA - Time Weighted Average

UEL - Upper Explosive Limit

UN - United Nations

WEEL - Workplace Environmental Exposure Level (USA - AIHA)