according to the Globally Harmonized System



# Benzylpenicillin / Streptomycin Sulphate Solid Formulation

Version Revision Date: SDS Number: Date of last issue: 30.09.2023 7.0 28.09.2024 2456280-00024 Date of first issue: 13.02.2018

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Benzylpenicillin / Streptomycin Sulphate Solid Formulation

Manufacturer or supplier's details

Company : MSD

Address : Briahnager - Off Pune Nagar Road

Wagholi - Pune - India 412 207

Telephone : +1-908-740-4000

Emergency telephone number: +1-908-423-6000

E-mail address : EHSDATASTEWARD@msd.com

Recommended use of the chemical and restrictions on use

Recommended use : Veterinary product Restrictions on use : Not applicable

## 2. HAZARDS IDENTIFICATION

## Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

#### Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

**GHS Classification** 

Acute toxicity (Oral) : Category 4

Serious eye damage/eye irri-

tation

Category 2B

Respiratory sensitisation : Category 1

Skin sensitisation : Category 1

Reproductive toxicity : Category 1A

Specific target organ toxicity - :

repeated exposure

Category 1 (Kidney, inner ear)

Short-term (acute) aquatic

hazard

: Category 1

Long-term (chronic) aquatic

hazard

Category 1

according to the Globally Harmonized System



# Benzylpenicillin / Streptomycin Sulphate Solid Formulation

Version Revision Date: SDS Number: Date of last issue: 30.09.2023 7.0 28.09.2024 2456280-00024 Date of first issue: 13.02.2018

#### **GHS** label elements

Hazard pictograms







Signal word : Danger

Hazard statements : H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H320 Causes eye irritation.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

H360D May damage the unborn child.

H372 Causes damage to organs (Kidney, inner ear) through

prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P203 Obtain, read and follow all safety instructions before use.

P233 Keep container tightly closed.

P260 Do not breathe dust.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or with adequate ventilation.

P272 Contaminated work clothing should not be allowed out of

the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

P284 Wear respiratory protection.

Response:

P301 + P317 + P330 IF SWALLOWED: Get medical help.

Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P304 + P340 IF INHALED: Remove person to fresh air and

keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P318 IF exposed or concerned, get medical advice.

P333 + P317 If skin irritation or rash occurs: Get medical help.

P337 + P317 If eye irritation persists: Get medical help.

P342 + P316 If experiencing respiratory symptoms: Get emer-

gency medical help immediately.

P362 + P364 Take off contaminated clothing and wash it before

reuse.

P391 Collect spillage.

Storage:

according to the Globally Harmonized System



# Benzylpenicillin / Streptomycin Sulphate Solid **Formulation**

Version Revision Date: SDS Number: Date of last issue: 30.09.2023 28.09.2024 2456280-00024 Date of first issue: 13.02.2018 7.0

P403 Store in a well-ventilated place.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

### Other hazards which do not result in classification

Contact with dust can cause mechanical irritation or drying of the skin.

May form explosive dust-air mixture during processing, handling or other means.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture Mixture

## Components

Chemical name	CAS-No.	Concentration (% w/w)
Benzylpenicillin	61-33-6	>= 50 - < 70
Streptomycin sulphate	3810-74-0	>= 30 - < 50

## 4. FIRST AID MEASURES

General advice In the case of accident or if you feel unwell, seek medical ad-

vice 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.

In case of contact, immediately flush skin with soap and plenty In case of skin contact

of water.

Remove contaminated clothing and shoes.

Get medical attention. Wash clothing before reuse.

Thoroughly clean shoes before reuse.

In case of eye contact 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.

If swallowed If swallowed, DO NOT induce vomiting.

Get medical attention.

Rinse mouth thoroughly with water.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and

Harmful if swallowed.

May cause an allergic skin reaction.

delayed

Causes eye irritation.

May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

May damage the unborn child.

Causes damage to organs through prolonged or repeated

exposure.

according to the Globally Harmonized System



# Benzylpenicillin / Streptomycin Sulphate Solid Formulation

Version Revision Date: SDS Number: Date of last issue: 30.09.2023 7.0 28.09.2024 2456280-00024 Date of first issue: 13.02.2018

Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reac-

tive airways dysfunction syndrome).

Contact with dust can cause mechanical irritation or drying of

the skin.

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.

## 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

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 prod: :

ucts

Carbon oxides

Metal oxides

Specific extinguishing meth-

ods

Use extinguishing measures that are appropriate to local cir-

cumstances 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 firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency procedures

Use personal protective equipment.

Follow safe handling advice (see section 7) and personal pro-

tective equipment recommendations (see section 8).

Environmental precautions : Avoid release to the environment.

Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for : Surround spill with absorbents and place a damp covering

according to the Globally Harmonized System



# Benzylpenicillin / Streptomycin Sulphate Solid Formulation

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 30.09.2023

 7.0
 28.09.2024
 2456280-00024
 Date of first issue: 13.02.2018

containment and cleaning up over the area to minimise entry of the material into the air.

Add excess liquid to allow the material to enter into solution.

Soak up with inert absorbent material.

Avoid dispersal of dust in the air (i.e., clearing dust surfaces

with compressed air).

Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Clean up remaining materials from spill with suitable absorbent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter-

mine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding

certain local or national requirements.

### 7. HANDLING AND STORAGE

Technical measures : Static electricity may accumulate and ignite suspended dust

causing an explosion.

Provide adequate precautions, such as electrical grounding

and bonding, or inert atmospheres.

Local/Total ventilation : If sufficient ventilation is unavailable, use with local exhaust

ventilation.

Advice on safe handling : Do not get on skin or clothing.

Do not breathe dust. Do not swallow. Do not get in eyes.

Wash skin thoroughly after handling.

Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as-

sessment

Keep container tightly closed.

Already sensitised individuals, and those susceptible

to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respira-

tory irritants or sensitisers.

Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition.

Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product.

Take care to prevent spills, waste and minimize release to the

environment.

Conditions for safe storage : Keep in properly labelled containers.

Store locked up. Keep tightly closed.

Store in accordance with the particular national regulations.

Materials to avoid : Do not store with the following product types:

Strong oxidizing agents

according to the Globally Harmonized System



# Benzylpenicillin / Streptomycin Sulphate Solid Formulation

Version Revision Date: SDS Number: Date of last issue: 30.09.2023 7.0 28.09.2024 2456280-00024 Date of first issue: 13.02.2018

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parameters / Permissible	Basis		
		exposure)	concentration			
Benzylpenicillin	61-33-6	TWA	600 μg/m3 (OEB 2)	Internal		
	Further inforr	Further information: RSEN, DSEN				
		Wipe limit	100 μg/100 cm2	Internal		
Streptomycin sulphate	3810-74-0	TWA	OEB 2 (>= 100 < 1,000 μg/m3)	Internal		
	Further inforr	Further information: DSEN				

**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 : If adequate local exhaust ventilation is not available or expo-

sure assessment demonstrates exposures outside the rec-

ommended guidelines, use respiratory protection.

Filter type Hand protection : Particulates type

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 : Work uniform or laboratory coat.

Hygiene measures : 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.

Contaminated work clothing should not be allowed out of the

workplace.

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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

according to the Globally Harmonized System



# Benzylpenicillin / Streptomycin Sulphate Solid Formulation

Version Revision Date: SDS Number: Date of last issue: 30.09.2023 7.0 28.09.2024 2456280-00024 Date of first issue: 13.02.2018

Appearance : powder

Colour : white

Odour : odourless

Odour Threshold : No data available

pH : 6.0 - 7.5

(aqueous suspension)

Melting point/freezing point : No data available

Initial boiling point and boiling

range

No data available

Flash point : No data available

Evaporation rate : Not applicable

Flammability (solid, gas) : May form explosive dust-air mixture during processing, han-

dling or other means.

Flammability (liquids) : Not applicable

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Relative density : No data available

Density :  $> 0.3 \text{ g/cm}^3$ 

Solubility(ies)

Water solubility : slightly soluble

Partition coefficient: n-

octanol/water

Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

according to the Globally Harmonized System



# Benzylpenicillin / Streptomycin Sulphate Solid Formulation

Version Revision Date: SDS Number: Date of last issue: 30.09.2023 7.0 28.09.2024 2456280-00024 Date of first issue: 13.02.2018

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

Molecular weight : No data available

Particle characteristics

Particle size : No data available

## 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard. Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

tions

May form explosive dust-air mixture during processing, han-

dling or other means.

Can react with strong oxidizing agents.

Conditions to avoid : Heat, flames and sparks.

Avoid dust formation. Oxidizing agents

Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. TOXICOLOGICAL INFORMATION

Information on likely routes of:

exposure

Inhalation Skin contact Ingestion

Eye contact

**Acute toxicity** 

Harmful if swallowed.

**Product:** 

Acute oral toxicity : Acute toxicity estimate: 1,030 mg/kg

Method: Calculation method

Components:

Benzylpenicillin:

Acute oral toxicity : LD50 (Rat): 8,000 mg/kg

LD50 (Mouse): > 5,000 mg/kg

Acute toxicity (other routes of :

administration)

LD50 (Mouse): 3,500 mg/kg

Application Route: Intraperitoneal

LD50 (Mouse): 329 mg/kg Application Route: Intravenous

Streptomycin sulphate:

Acute oral toxicity : LD50 (Hamster): 400 mg/kg

according to the Globally Harmonized System



# Benzylpenicillin / Streptomycin Sulphate Solid Formulation

Version Revision Date: SDS Number: Date of last issue: 30.09.2023 7.0 28.09.2024 2456280-00024 Date of first issue: 13.02.2018

LD50 (Rat): 430 mg/kg

LD50 (Mouse): 25,000 mg/kg

Acute toxicity (other routes of :

administration)

LD50 (Mouse): 85 - 111 mg/kg Application Route: Intravenous

LD50 (Mouse): 575 - 610 mg/kg Application Route: Intraperitoneal

LD50 (Mouse): 500 - 600 mg/kg Application Route: Subcutaneous

TDLo (Dog): 220 - 440 mg/kg Application Route: Intravenous Symptoms: Lowered blood pressure

LDLo (Monkey): 110 mg/kg Application Route: Intravenous

TDLo (Monkey): 30 - 70 mg/kg Application Route: Subcutaneous Symptoms: respiratory depression

## Skin corrosion/irritation

Not classified based on available information.

# Serious eye damage/eye irritation

Causes eye irritation.

## **Components:**

# Streptomycin sulphate:

Result : Mild eye irritation

## Respiratory or skin sensitisation

## Skin sensitisation

May cause an allergic skin reaction.

## Respiratory sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

# **Components:**

# Benzylpenicillin:

Test Type : Local lymph node assay (LLNA)

Exposure routes : Dermal Species : Mouse

Result : Weak sensitizer

Test Type : Maximisation Test

according to the Globally Harmonized System



# Benzylpenicillin / Streptomycin Sulphate Solid **Formulation**

Version Revision Date: SDS Number: Date of last issue: 30.09.2023 7.0 28.09.2024 2456280-00024 Date of first issue: 13.02.2018

Exposure routes Dermal Species : Guinea pig Result positive

Remarks Based on data from similar materials

Result Strong sensitizer

Remarks Based on human experience.

Streptomycin sulphate:

Test Type : Human repeat insult patch test (HRIPT)

Exposure routes : Dermal Species : Humans Result : Weak sensitizer

Germ cell mutagenicity

Not classified based on available information.

**Components:** 

Benzylpenicillin:

Germ cell mutagenicity -Assessment

: Weight of evidence does not support classification as a germ

cell mutagen.

Streptomycin sulphate:

Genotoxicity in vitro : Test Type: Chromosomal aberration

Result: equivocal

Genotoxicity in vivo Test Type: Chromosomal aberration

Cell type: Human lymphocytes

Result: negative

Carcinogenicity

Not classified based on available information.

**Components:** 

Streptomycin sulphate:

Species : Rat Application Route

: Oral: 5 mg/kg body weight NOAEL

Result : negative

Carcinogenicity - Assess-

ment

: Weight of evidence does not support classification as a car-

cinogen

Reproductive toxicity

May damage the unborn child.

**Components:** 

Benzylpenicillin:

according to the Globally Harmonized System



# Benzylpenicillin / Streptomycin Sulphate Solid Formulation

Version Revision Date: SDS Number: Date of last issue: 30.09.2023 7.0 28.09.2024 2456280-00024 Date of first issue: 13.02.2018

Effects on fertility : Test Type: Fertility

Species: Mouse

Result: No effects on fertility

Test Type: Fertility Species: Rat

Result: No effects on fertility

Test Type: Fertility Species: Rabbit

Result: No effects on fertility

Effects on foetal develop-

ment

Test Type: Development

Species: Mouse

Result: No effects on foetal development

Test Type: Development

Species: Rat

Result: No effects on foetal development

Test Type: Development

Species: Rabbit

Result: No effects on foetal development

Streptomycin sulphate:

Effects on fertility : Test Type: Fertility

Species: Rat

Application Route: Intraperitoneal Fertility: LOAEL: 40 mg/kg body weight Symptoms: male reproductive effects

Effects on foetal develop-

ment

Test Type: Development

Species: Mouse

Application Route: Intraperitoneal

Developmental Toxicity: LOAEL: 250 mg/kg body weight

Symptoms: fetal deafness, Embryo-foetal toxicity

Test Type: Development

Species: Rabbit

**Application Route: Oral** 

Developmental Toxicity: NOAEL: 10 mg/kg body weight

Result: No teratogenic effects

Reproductive toxicity - As-

sessment

May damage the unborn child.

## STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Causes damage to organs (Kidney, inner ear) through prolonged or repeated exposure.

according to the Globally Harmonized System



# Benzylpenicillin / Streptomycin Sulphate Solid **Formulation**

Version Revision Date: SDS Number: Date of last issue: 30.09.2023 7.0 28.09.2024 2456280-00024 Date of first issue: 13.02.2018

## Components:

Streptomycin sulphate:

Target Organs : Kidney, inner ear

Assessment Causes damage to organs through prolonged or repeated

exposure.

## Repeated dose toxicity

# **Components:**

## Streptomycin sulphate:

**Species** : Rat

NOAEL 100 mg/kg NOAEL Application Route Exposure time Remarks Subcutaneous

: No significant adverse effects were reported Remarks

Cat

Species LOAEL Application Route Exposure time Target Organs 200 mg/kg : Oral : 90 Days Target Organs : inner ear

Species : Dog
LOAEL : 44 mg/kg
Application Route : Intramuscular
Exposure time : 14 Days
Target Organs : inner ear Target Organs

Dog Species

Species LOAEL Application Route Exposure time Target Organs Symptoms 50 - 100 mg/kg Intramuscular : 20 Days

: inner ear, Kidney

Symptoms ataxia

Monkey Species 50 mg/kg NOAEL LOAEL 100 mg/kg Application Route
Exposure time
Target Organs : Intramuscular 5 Days Target Organs : Liver, Kidney

Species Rat NOAEL 5 mg/kg Application Route Oral Exposure time 2 yr

Remarks No significant adverse effects were reported

Monkey Species LOAEL 25 mg/kg Application Route Subcutaneous

according to the Globally Harmonized System



# Benzylpenicillin / Streptomycin Sulphate Solid Formulation

Version Revision Date: SDS Number: Date of last issue: 30.09.2023 7.0 28.09.2024 2456280-00024 Date of first issue: 13.02.2018

Exposure time : 66 Days

Target Organs : Blood, Liver, Kidney

Symptoms : anemia

# **Aspiration toxicity**

Not classified based on available information.

## **Experience with human exposure**

## **Components:**

Benzylpenicillin:

Inhalation : Symptoms: Allergic reactions, Abdominal pain, bron-

chospasm, skin rash

Streptomycin sulphate:

Inhalation : Target Organs: inner ear

Symptoms: hearing loss Target Organs: Kidney Symptoms: hearing loss Symptoms: skin rash

## 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

Skin contact

### **Components:**

## Benzylpenicillin:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 96 hrs

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 3.6 mg/l

Exposure time: 48 hrs

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Raphidocelis subcapitata (freshwater green alga)): >

100 mg/l

Exposure time: 72 hrs

Method: OECD Test Guideline 201

NOEC (Raphidocelis subcapitata (freshwater green alga)): 50

mg/l

Exposure time: 72 hrs

Method: OECD Test Guideline 201

EC50 (blue-green algae): 0.74 mg/l

Exposure time: 72 hrs

Method: OECD Test Guideline 201

NOEC (blue-green algae): 0.14 mg/l

Exposure time: 72 hrs

according to the Globally Harmonized System



# Benzylpenicillin / Streptomycin Sulphate Solid Formulation

Version Revision Date: SDS Number: Date of last issue: 30.09.2023 7.0 28.09.2024 2456280-00024 Date of first issue: 13.02.2018

Method: OECD Test Guideline 201

M-Factor (Acute aquatic tox-

icity)

. 1

Toxicity to microorganisms

EC50: > 500 mg/l Exposure time: 3 h

Test Type: Respiration inhibition Method: OECD Test Guideline 209

NOEC: 5 mg/l Exposure time: 3 h

Test Type: Respiration inhibition Method: OECD Test Guideline 209

Streptomycin sulphate:

Toxicity to daphnia and other : aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 487 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Microcystis aeruginosa (blue-green algae)): 0.007 mg/l

Exposure time: 72 h

Method: ISO 8692

EC50 (Selenastrum capricornutum (green algae)): 0.133 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

M-Factor (Acute aquatic tox- :

icity)

100

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 32 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

M-Factor (Chronic aquatic

toxicity)

: 100

# Persistence and degradability

## **Components:**

### Benzylpenicillin:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 70.10 %

Exposure time: 28 d

Method: OECD Test Guideline 301B

according to the Globally Harmonized System



# Benzylpenicillin / Streptomycin Sulphate Solid Formulation

Version Revision Date: SDS Number: Date of last issue: 30.09.2023 7.0 28.09.2024 2456280-00024 Date of first issue: 13.02.2018

## Bioaccumulative potential

## **Components:**

## Streptomycin sulphate:

Partition coefficient: n-

octanol/water

: log Pow: -3.2

## Mobility in soil

No data available

## Other adverse effects

No data available

#### 13. DISPOSAL CONSIDERATIONS

# **Disposal methods**

Waste from residues : Do not dispose of waste into sewer.

Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

If not otherwise specified: Dispose of as unused product.

# 14. TRANSPORT INFORMATION

## International Regulations

**UNRTDG** 

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

956

956

(Streptomycin sulphate, Benzylpenicillin)

Class : 9
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.

(Streptomycin sulphate, Benzylpenicillin)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

Packing instruction (passen: :

ger aircraft)

Environmentally hazardous : yes

IMDG-Code

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

according to the Globally Harmonized System



# Benzylpenicillin / Streptomycin Sulphate Solid Formulation

Version Revision Date: SDS Number: Date of last issue: 30.09.2023 7.0 28.09.2024 2456280-00024 Date of first issue: 13.02.2018

N.O.S.

(Streptomycin sulphate, Benzylpenicillin)

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.

## 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.

### 15. REGULATORY INFORMATION

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

The components of this product are reported in the following inventories:

AICS : not determined

DSL : not determined

IECSC : not determined

# **16. OTHER INFORMATION**

Revision Date : 28.09.2024

**Further information** 

Sources of key data used to compile the Safety Data Sheet

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-

cy, http://echa.europa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format : dd.mm.yyyy

## Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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 Sys-

according to the Globally Harmonized System



# Benzylpenicillin / Streptomycin Sulphate Solid Formulation

Version Revision Date: SDS Number: Date of last issue: 30.09.2023 7.0 28.09.2024 2456280-00024 Date of first issue: 13.02.2018

tem; GLP - Good Laboratory Practice; 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 Organisation 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate: NOM - Official Mexican Norm: 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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.

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