

**Penicillin-Streptomycin 10K/10K**

Version 2.0

SDS Number: 000000011529

Revision Date: 2016.11.28

**SECTION 1. IDENTIFICATION**

Product name : Penicillin-Streptomycin 10K/10K  
Material number : 17-602E  
Product code : 000000011529

**Manufacturer or supplier's details**

Company : **Lonza Ltd**  
Muenchensteinerstrasse 38  
CH-4002 Basel  
Switzerland  
Business Telephone +41 61 316 81 11

**Lonza Inc. - Rockland**  
191 Thomaston Street  
Rockland, ME 04841-2994  
USA  
Business Telephone: 1-207-594-3400

**Lonza Inc. - Walkersville**  
8830 Biggs Ford Road  
Walkersville, MD 21793-0127  
USA  
Business Telephone 1-301-898-7025

E-mail address : prodinfo@lonza.com  
Emergency telephone number : +41 61 313 94 94 (24h )

**Recommended use of the chemical and restrictions on use**

Recommended use : For Research Use Only. Not for use in diagnostic procedures.

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Respiratory sensitisation : Category 1  
Skin sensitisation : Category 1  
Reproductive toxicity : Category 2

**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H317 May cause an allergic skin reaction.  
H334 May cause allergy or asthma symptoms or breathing difficul-

## Penicillin-Streptomycin 10K/10K

Version 2.0

SDS Number: 000000011529

Revision Date: 2016.11.28

ties if inhaled.  
H361 Suspected of damaging fertility or the unborn child.

### Precautionary statements

: **Prevention:**  
P201 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/ vapours/ spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P285 In case of inadequate ventilation wear respiratory protection.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.  
**Storage:**  
P405 Store locked up.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Hazardous components

| Chemical name               | CAS-No.   | Concentration (%) |
|-----------------------------|-----------|-------------------|
| Streptomycin sulphate       | 3810-74-0 | 1.49              |
| Penicillin-G potassium salt | 113-98-4  | 0.67              |

## SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air.  
Call a physician immediately.  
If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact : After contact with skin, wash immediately with plenty of soap and water.  
Take off all contaminated clothing immediately.  
Call a physician immediately.

In case of eye contact : Immediately flush eye(s) with plenty of water.  
Call a physician immediately.

**Penicillin-Streptomycin 10K/10K**

Version 2.0

SDS Number: 000000011529

Revision Date: 2016.11.28

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| If swallowed  | : | Immediately give plenty of water (if possible charcoal slurry).<br>Do not induce vomiting without medical advice.<br>Never give anything by mouth to an unconscious person.<br>Take victim immediately to hospital. |
| Most important symptoms and effects, both acute and delayed | : | No information available.   |
| Notes to physician  | : | No information available.   |
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**SECTION 5. FIREFIGHTING MEASURES**

- |   |   |  |
|---|---|--|
| Suitable extinguishing media                  | : | Water spray<br>Dry powder<br>Foam                              |
| Specific hazards during firefighting          | : | Heating or fire can release toxic gas.                         |
| Further information                           | : | Use water spray to cool unopened containers.                   |
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus. |
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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- |   |   |   |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Use respirator when performing operations involving potential exposure to vapour of the product.  |
| Environmental precautions   | : |   |
| General advice  | : | Do not flush into surface water or sanitary sewer system.   |
| Methods and materials for containment and cleaning up               | : | Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). |
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**SECTION 7. HANDLING AND STORAGE**

- |                                 |   |   |
|---------------------------------|---|---|
| Advice on safe handling         | : | In case of insufficient ventilation, wear suitable respiratory equipment.<br>Avoid exposure - obtain special instructions before use.<br>Use only in area provided with appropriate exhaust ventilation.<br>Avoid contact with skin and eyes. |
| Conditions for safe storage     | : | Keep tightly closed.  |
| Recommended storage temperature | : | -20 - 37 °C   |

**Penicillin-Streptomycin 10K/10K**

Version 2.0

SDS Number: 000000011529

Revision Date: 2016.11.28

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Hazardous components without workplace control parameters**

| Components                  | CAS-No.   |
|-----------------------------|-----------|
| Streptomycin sulphate       | 3810-74-0 |
| Penicillin-G potassium salt | 113-98-4  |

**Appropriate engineering controls**

**Engineering measures** : Provide sufficient air exchange and/or exhaust in work rooms.

**Personal protective equipment**

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Hand protection

Remarks : Wear suitable gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Eye protection : Tightly fitting safety goggles

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Complete suit protecting against chemicals

Hygiene measures : **DANGER!**  
Avoid contact with the skin and the eyes.  
Avoid breathing dust or spray mist.  
Wash hands before breaks and immediately after handling the product.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Aqueous solution

Colour : colourless, clear

Odour : odourless

Odour Threshold : no data available

pH : 6.8 - 7.4

Freezing point : ca. 0 °C

Boiling point/boiling range : no data available

**Penicillin-Streptomycin 10K/10K**

Version 2.0

SDS Number: 000000011529

Revision Date: 2016.11.28

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|  |   |                         |
|--|---|-------------------------|
| Flash point                            | : | Not applicable          |
| Evaporation rate                       | : | no data available       |
| Upper explosion limit                  | : | no data available       |
| Lower explosion limit                  | : | no data available       |
| Vapour pressure                        | : | no data available       |
| Relative vapour density                | : | no data available       |
| Relative density                       | : | no data available       |
| Density                                | : | ca. 1 g/cm <sup>3</sup> |
| Solubility(ies)                        | : |                         |
| Water solubility                       | : | soluble                 |
| Partition coefficient: n-octanol/water | : | no data available       |
| Auto-ignition temperature              | : | no data available       |
| Decomposition temperature              | : | no data available       |
| Viscosity, dynamic                     | : | no data available       |
| Viscosity, kinematic                   | : | no data available       |

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**SECTION 10. STABILITY AND REACTIVITY**

|                                    |   |  |
|------------------------------------|---|--|
| Reactivity                         | : | Stable under recommended storage conditions.   |
| Chemical stability                 | : | Stable under normal conditions.  |
| Possibility of hazardous reactions | : | None known.  |
| Conditions to avoid                | : | None known.  |
| Incompatible materials             | : | None known.  |
| Hazardous decomposition products   | : | Carbon dioxide (CO <sub>2</sub> )<br>Carbon monoxide<br>Nitrogen oxides (NO <sub>x</sub> )<br>Sulphur oxides |

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**SECTION 11. TOXICOLOGICAL INFORMATION**

|  |   |                            |
|--|---|----------------------------|
| Information on likely routes of exposure | : | Inhalation<br>Eyes<br>Skin |
|--|---|----------------------------|

**Acute toxicity**

**Penicillin-Streptomycin 10K/10K**

Version 2.0

SDS Number: 000000011529

Revision Date: 2016.11.28

Acute oral toxicity (Acute toxicity estimate) : > 5,000 mg/kg  
Method: Calculation method

**Carcinogenicity****IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**ACGIH**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**Further information**

Remarks: No data is available on the product itself.

**The following toxicological data refer to:****Streptomycin sulphate** (CAS-No.: 3810-74-0)**Acute toxicity**

Acute oral toxicity (LD50 Oral) : 430 mg/kg  
Species: Rat

**Respiratory or skin sensitisation**

Sensitisation : Remarks: May cause sensitisation by skin contact.

**Reproductive toxicity**

Reproductive toxicity - Assessment : May cause harm to the unborn child.

**Penicillin-G potassium salt** (CAS-No.: 113-98-4)**Acute toxicity**

Acute oral toxicity (LD50 Oral) : 8,900 mg/kg  
Species: Rat

**Respiratory or skin sensitisation**

Sensitisation : Remarks: May cause sensitisation by inhalation and skin contact.

**Penicillin-Streptomycin 10K/10K**

Version 2.0

SDS Number: 000000011529

Revision Date: 2016.11.28

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

Toxicity to fish : Remarks: no data available

**Persistence and degradability**

Biodegradability : Result: no data available

**Bioaccumulative potential**

Bioaccumulation : Remarks: no data available

**Mobility in soil**

Distribution among environmental compartments : Remarks: no data available

**Other adverse effects**Ozone-Depletion Potential : Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Depleting Substances (40 CFR 82, Subpt. A, App A & B)  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).Additional ecological information : No data is available on the product itself.

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**Waste from residues : Dispose of in accordance with local regulations.  
Contact waste disposal services.

Contaminated packaging : Dispose of as unused product.

## Penicillin-Streptomycin 10K/10K

Version 2.0

SDS Number: 000000011529

Revision Date: 2016.11.28

**SECTION 14. TRANSPORT INFORMATION****IATA** Not dangerous goods

**UN number** : Not applicable  
**Proper shipping name** : Not applicable  
**Transport hazard class** : Not applicable  
**Packing group** : Not applicable  
**Environmental hazards** : no

**IMDG** Not dangerous goods

**UN number** : Not applicable  
**Proper shipping name** : Not applicable  
**Transport hazard class** : Not applicable  
**Packing group** : Not applicable  
**Environmental hazards** : Marine pollutant: no

**ADR** Not dangerous goods

**UN number** : Not applicable  
**Proper shipping name** : Not applicable  
**Transport hazard class** : Not applicable  
**Packing group** : Not applicable  
**Environmental hazards** : no

**RID** Not dangerous goods

**UN number** : Not applicable  
**Proper shipping name** : Not applicable  
**Transport hazard class** : Not applicable  
**Packing group** : Not applicable  
**Environmental hazards** : no

**DOT** Not dangerous goods

**UN number** : Not applicable  
**Proper shipping name** : Not applicable  
**Transport hazard class** : Not applicable  
**Packing group** : Not applicable  
**Environmental hazards** : no



## Penicillin-Streptomycin 10K/10K

Version 2.0

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Revision Date: 2016.11.28

|   |   |                     |
|---|---|---------------------|
| <b>TDG</b>  | : | Not dangerous goods |
| <b>UN number</b>  | : | Not applicable      |
| <b>Proper shipping name</b>   | : | Not applicable      |
| <b>Transport hazard class</b>   | : | Not applicable      |
| <b>Packing group</b>  | : | Not applicable      |
| <b>Environmental hazards</b>  | : | no                  |
| <b>Special precautions for user</b>   | : | none                |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | : | Not applicable      |

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**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards**

See above: SECTION 2. Hazard Identification-GHS Classification

**SARA 302**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

**Clean Water Act**

**Penicillin-Streptomycin 10K/10K**

Version 2.0

SDS Number: 000000011529

Revision Date: 2016.11.28

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**US State Regulations****Massachusetts Right To Know**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know**

| Components | CAS-No.   |
|------------|-----------|
| Water      | 7732-18-5 |

**New York City Hazardous Substances**

No components listed on the New York City Hazardous Substances List

**California Prop. 65**

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

| Components            | CAS-No.   |
|-----------------------|-----------|
| Streptomycin sulphate | 3810-74-0 |

**SECTION 16. OTHER INFORMATION**

Revision Date : 2016.11.28

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.