

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)  
Classifications according to Regulation (EC) No 1272/2008.  
Printdate 20 Jun 2023

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product name:

Kanamycin monosulfate

### 1.1. Catalog No.:

674877

### 1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical  
uses: R&D

### 1.3. Uses advised against:

HPC Standards GmbH  
Am Wieseneck 7

04451 Cunnersdorf  
Deutschland

Tel. +49 34291 3372-36  
Fax. +49 34291 3372-39  
contact@hpc-standards.com

### 1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36  
This number is only available during office hours.

## 2. HAZARDS IDENTIFICATION

2.1

Classification of the substance or mixture  
Classification according to Regulation (EC) No 1272/2008  
Reproductive toxicity

(  
Category 1B

),  
H360 Classification according to EU Directives 67/548/EEC or 1999/45/EC

T  
Toxic  
R61

### 2.2. Label elements

#### 2.2.1. Pictogram



## 2.2.2.

2.2  
Label elements  
Labelling according Regulation (EC) No 1272/2008  
Pictogram Signal word  
Danger  
Hazard statement(s)  
H360  
May damage fertility or the unborn child.  
Precautionary statement(s)  
P201  
Obtain special instructions before use. P308 + P313  
IF exp  
osed or concerned: Get medical advice/ attention.  
Supplemental Hazard  
Statements  
none  
Restricted to professional users.  
2.3  
Other hazards  
-  
none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1  
Substances  
Synonyms  
.  
Kanamycin  
Kanamycin  
A  
Formula  
.  
C  
18  
H  
36  
N  
4  
O  
11  
.  
H  
2  
O  
4  
S  
Molecular Weight  
.  
582,58 g/mol  
CAS  
-  
No.  
.  
25389  
-  
94  
-  
0  
EC  
-  
No.  
.  
246  
-  
933  
-  
9  
Hazardous ingredients according to Regulation (EC) No 1272/2008  
Component

Classification  
Concentration  
Kanamycin sulphate  
CAS

-  
No.  
EC  
-  
No.  
25389

-  
94  
-  
0  
246

-  
933  
-  
9

Repr.  
1B

-  
H360

<= 100 %

Hazardous ingredients according to Directive 1999/45/EC

Component  
Classification  
Concentration  
Kanamycin sulphate  
CAS

-  
No.  
EC  
-  
No.  
25389

-  
94  
-  
0  
246

-  
933  
-  
9

T

-  
R61

<= 100 %

### 3.1.1. Formula

C<sub>18</sub>H<sub>38</sub>N<sub>4</sub>O<sub>15</sub>S

### 3.1.2. Molecular Weight (g/mol)

582.58

### 3.1.3. CAS-No.

25389-94-0

## 4. FIRST AID MEASURES

### 4.1

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 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. FIRE-FIGHTING MEASURES

### 5.1

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol

-

resistant foam,  
dry chemical or carbon dioxide.

### 5.2

Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Sulphur oxides

### 5.3

Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 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. Evacuate personnel to safe areas. Avoid breathing dust.

For personal

protection see section 8.

6.2

Environmental precautions

Prevent further leakage or spillage if safe to do so. 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 up and shovel. 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

Avoid formation of dust and aerosols.

Avoid exposure

-

obtain special instructions before use.

Provide appropriate exhaust ventilation at places where dust is formed.

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

e.

7.3

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1

Control parameters

Components with workplace control parameters

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

Safety glasses with side

-

shields conforming to EN166 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. Use

proper glove removal technique

(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands. Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air

-

purifying re

spirators are appropriate use a full

-

face particle

respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full

-

face supplied air respirator. Use

resp

irators and components tested and approved under appropriate government standards such

as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1

Information on basic physical and chemical properties

a)

Appearance

Form

:

powder

b)

Odour

no data available

c)

Odour Threshold

no data available

d)

pH

no data available

e)

Melting point/freezing

point

no data available

f)

Initial boiling point and

boiling range

no data available

g)

Flash point

no data available

h)

Evaporation rate

no data available

i)

Flammability (solid, gas)

no data available

j)

Upper/lower

flammability or

explosive limits

no data available

k)

Vapour pressure

no data available l)

Vapour density

no data available

m)

Relative density

no data available

n)

Water solubility

no data available

o)

Partition coefficient: n

-

octanol/water  
no data available  
p)  
Auto  
-  
ignition  
temperature  
no data available  
q)  
Decomposition  
temperature  
no data available  
r)  
Viscosity  
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  
no data available  
10.2  
Chemical stability  
Stable under recommended storage conditions.  
10.3  
Possibility of hazardous reactions  
no data available  
10.4  
Conditions to avoid  
no data available  
10.5  
Incompatible materials  
Strong oxidizing agents  
10.6  
Hazardous decomposition products  
Other decomposition products  
-  
no data available  
In the event of fire: see section 5

## 11. TOXICOLOGICAL INFORMATION

11.1  
Information on toxicological effects  
Acute toxicity  
LD50  
Oral  
-  
rat  
-

> 4.000 mg/kg  
LD50  
Intravenous  
-  
rat  
-  
225 mg/kg  
LD50  
Intramuscular  
-  
rat  
-  
> 4.000 mg/kg  
LD50  
Subcutaneous  
-  
rabbit  
-  
> 3 g/kg  
LD50  
Intravenous  
-  
rabbit  
-  
550 mg/kg  
LD50  
Intramuscular  
-  
rabbit  
-  
> 3 g/kg  
LD50  
Intraperitoneal  
-  
mouse  
-  
1.353 mg/kg  
LD50  
Subcutaneous  
-  
mouse  
-  
1.100 mg/kg  
Remarks  
:  
Behavioral:Change in motor activity (specific assay). Lungs, Thorax, or Respiration:Other  
changes. Nutritional and Gross Metabolic:Changes in:Body temperature decrease.  
TDLo  
Intramuscular  
-  
rat  
-  
female  
-  
4.400 mg/kg  
TDLo  
Intramuscular  
-  
Child  
-  
390 mg/kg  
Remarks  
:  
Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Ear:Change in acuity Skin corrosion/irritation  
no data available  
Serious eye damage/eye irritation  
no data available  
Respiratory or skin sensitisation  
Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.  
Germ cell mutagenicity  
no data available  
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.  
Reproductive toxicity  
Reproductive toxicity  
-  
rat  
-  
female



-  
Intramuscular  
Maternal Effects: Other effects. Specific Developmental Abnormalities: Urogenital system.  
Reproductive toxicity  
-  
rat  
-  
female  
-  
Subcutaneous  
Effects on Embryo or Fetus: Fetal death. Specific Developmental Abnormalities: Musculoskeletal system.  
Reproductive toxicity  
-  
guinea pig  
-  
female  
-  
Intramuscular  
Specific Developmental Abnormalities: Eye, ear.  
Presumed human reproductive toxicant  
Specific target organ toxicity  
-  
single exposure  
no data available  
Specific target organ toxicity  
-  
repeated exposure  
no data available  
Aspiration hazard  
no data available  
Additional Information  
RTECS  
:  
:  
NZ3225030  
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  
Bioaccumulative potential  
no data available  
12.4  
Mobility in soil  
no data available  
12.5  
Results of PBT and vPvB assessment  
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted  
12.6  
Other adverse effects  
no data available

### 13. DISPOSAL CONSIDERATIONS

13.1  
Waste treatment methods  
Product  
Offer surplus and non  
-  
recyclable solutions to a licensed disposal company.  
Dissolve or mix the material  
with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.  
Contaminated packaging  
Dispose of as unused product

### 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  
no data available

## 15. REGULATORY INFORMATION

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

15.1

Safety, health and environmental regulations/legislation specific for the substance or mixture  
no data available

15.2

Chemical Safety Assessment  
For this product a chemical safety assessment was not carried out

## 16. OTHER INFORMATION

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 with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!