



Potassium Chloride 99.9 % KCl

Version: 2.2

Revision Date: 16.01.2012

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

1.1 Product identifier

Trade name : Potassium Chloride 99.9 % KCl
Ph. Eur., USP

Substance No. : 7447-40-7

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

Use of the Substance/Mixture : Pharmaceutical substance

1.3 Details of the supplier of the safety data sheet

Company : K+S KALI GmbH
Bertha-von-Suttner-Str. 7
34131 Kassel
Germany
Telephone : +49-(0)561-9301-0
Telefax : +49-(0)561-9301-1753
E-mail address : info@kali-gmbh.com

1.4 Emergency telephone number

Giftinformationszentrale Nord, Göttingen, Germany
Telephone: +49 (0)551 19240

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Classification(67/548/EEC,1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

2.2 Label elements

Labelling(REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Labelling according to EC Directives (67/548/EEC)

Further information : The product does not need to be labelled in accordance with
EC directives or respective national laws.

2.3 Other hazards

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
This substance is not considered to be very persistent nor very bioaccumulating (vPvB).
This substance is not considered to be very persistent nor very bioaccumulating (vPvB).



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3. Composition/information on ingredients

3.1 Substances

Chemical Name	CAS-No. EINECS-No. / ELINCS No.	Concentration [%]
Potassium chloride (KCl)	7447-40-7 231-211-8	> 99

4. First aid measures

4.1 Description of first aid measures

- General advice : Get medical attention if symptoms occur.
Show this safety data sheet to the doctor in attendance.
- If inhaled : If breathed in, move person into fresh air.
- In case of skin contact : Rinse with water.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : For specialist advice physicians should contact the Poisons Information Service.

5. Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : The product is not flammable.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : none

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Heating or fire can release toxic gas.
Hydrogen chloride gas

5.3 Advice for firefighters

- Special protective equipment for firefighters : Respiratory protection
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.



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6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid breathing dust.

6.2 Environmental precautions

Environmental precautions : Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Sweep up and shovel into suitable containers for disposal.
After cleaning, flush away traces with water.

6.4 Reference to other sections

For personal protection see section 8.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid dust formation.
Avoid inhalation, ingestion and contact with skin and eyes.

Advice on protection against fire and explosion : The product is not flammable.
No special protective measures against fire required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in a dry place.
Advice on common storage : No special restrictions on storage with other products.
German storage class : 13 Non Combustible Solids
Other data : Stable under recommended storage conditions.

7.3 Specific end uses

: Not relevant

8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

Provide adequate ventilation.

Personal protective equipment



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Respiratory protection	: Effective dust mask.
Hand protection	: not required under normal use
Eye protection	: Safety glasses
Skin and body protection	: not required Wear suitable protective clothing.
Hygiene measures	: When using do not eat or drink. Wash hands before breaks and at the end of workday.
Protective measures	: Do not breathe dust.
Environmental exposure controls	
General advice	: Do not let product enter drains.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: crystalline
Colour	: white
Odour	: very faint
pH	: ca. 4 - 7, 25 °C, Aqueous solution
Melting point/range	: 770 °C
Boiling point/boiling range	: Not applicable
Flash point	: Not applicable
Flammability (solid, gas)	: The product is not flammable.
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Vapour pressure	: Not applicable
Density	: 1,989 g/cm ³
Water solubility	: 300 g/l, 20 °C
Partition coefficient: n-octanol/water	: no data available
Autoignition temperature	: Not applicable
Ignition temperature	: Not applicable
Explosive properties	: Not applicable
Oxidizing properties	: Not applicable

9.2 Other information

Bulk density	: ca. 1.100 kg/m ³
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10. Stability and reactivity

10.1 Reactivity

Stable

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : None known.

10.6 Hazardous decomposition products

Hazardous decomposition products : No decomposition if stored and applied as directed.
Heating or fire can release toxic gas.
Hydrogen chloride gas

11. Toxicological information

11.1 Information on toxicological effects

Product

Acute oral toxicity : LD50: 3.020 mg/kg, rat

Skin corrosion/irritation : rabbit, Result: No skin irritation

Serious eye damage/eye irritation : rabbit, Result: Eye irritation, Based on available data, the classification criteria are not met.

Respiratory or skin sensitization : Result: Does not cause skin sensitization., Information derived from practical experience.
: Result: Does not cause respiratory sensitization., Information derived from practical experience.

Germ cell mutagenicity

Genotoxicity in vitro : Result: Positive results were obtained in some in vitro tests., OECD 476

Genotoxicity in vivo : This information is not available.

Carcinogenicity : rat(male)
Animal testing did not show any carcinogenic effects.

Reproductive toxicity : This information is not available.
Assessment: Fertility classification not possible from current data.



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Teratogenicity	: rat, NOAEL: ca. 310 mg/kg
Assessment: Did not show mutagenic or teratogenic effects in animal experiments.	

STOT - repeated exposure	: rat(male), NOAEL: ca. 1.820 mg/kg
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12. Ecological information

12.1 Toxicity

Product:

Toxicity to fish	: LC50: 880 mg/l, 96 h, Pimephales promelas (fathead minnow), OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates.	: EC50: 440 - 880 mg/l, 48 h, Daphnia magna (Water flea), OECD Test Guideline 202
Toxicity to algae	: EC50: > 100 mg/l, 72 h, Desmodesmus subspicatus (green algae), OECD Test Guideline 201
Toxicity to bacteria	: EC50: > 1.000 mg/l, 3 h, activated sludge, OECD Guideline 209
Toxicity to fish(Chronic toxicity)	: No observed effect concentration: 500 mg/l, 7 d, OECD Guideline 210

12.2 Persistence and degradability

Product:

Biodegradability	: Not applicable
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12.3 Bioaccumulative potential

Product:

Bioaccumulation	: Not applicable
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12.4 Mobility in soil

Product:

Physico-chemical removability	: Not applicable
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12.5 Results of PBT and vPvB assessment

Product:

Assessment	: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).
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12.6 Other adverse effects



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Product:

Adsorbed organic bound halogens (AOX) : Not applicable

13. Disposal considerations

13.1 Waste treatment methods

Product : Check if agriculture use is possible.

Contaminated packaging : Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport information

14.1 Land transport

ADR

Remarks : Not a dangerous substance as defined in the above regulations.

Tunnel restriction code : Not relevant

14.2 Sea transport

IMDG

Remarks : Not classified as dangerous in the meaning of transport regulations.

14.3 Air transport

IATA-DGR

Remarks : Not classified as dangerous in the meaning of transport regulations.

14.4 Special precautions for user

Not relevant

14.5 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

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

Water contaminating class (Germany) : WGK 1 slightly water endangering

Notification status

REACH : This substance is exempt from registration according to Regulation (EC) No. 1907/2006 (REACH).

15.2 Chemical Safety Assessment



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A Chemical Safety Assessment is not required for this substance.

16. Other information

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.