

⊢⊑ Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

Issue date:07/02/2020 Revision date: 07/02/2025 : Version: 1.0

SECTION 1: Identification

1.1. Product identifier

Trade name : POTASSIUM CHLORIDE IUPAC name : potassium chloride EC-No. : 231-211-8 CAS-No. : 7447-40-7 Product code : 116090xxx Formula : KCI

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

Recommended uses and restrictions : For laboratory use only

1.3. Supplier's details

Labchem (Pty)Ltd 6 Wakefield Road Founders Hill 1609 Johannesburg - South Africa T +27 11 452 1116 - F +27 86 588 0293 techlab@labchem.co.za - www.labchem.co.za

1.4. Emergency telephone number

Emergency number : +27 11 452 1116

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Acute toxicity (oral), Category 5 H303

Hazardous to the aquatic environment -

Acute Hazard Not classified

Full text of H statements : see section 16

2.2. Label elements

Labelling according to the United Nations GHS

Signal word (GHS-ZA) : Warning

Hazard statements (GHS-ZA) : H303 - May be harmful if swallowed

Precautionary statements (GHS-ZA) : P312 - Call a POISON CENTER or doctor if you feel unwell.

2.3. Other hazards

Adverse physicochemical, human health and

environmental effects

: Harmful if swallowed.

SECTION 3: Composition/information on ingredients

3.1. Substances

IUPAC name : potassium chloride

Substance identification codes: See section 1.1

Name	Product identifier	%	Classification according to the United Nations GHS
potassium chloride (Main constituent)	(CAS-No.) 7447-40-7	≥ 99	Acute Tox. 5 (Oral), H303 Aquatic Acute Not classified

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Rinse mouth. Call a poison center or a doctor if you feel unwell.

28/02/2020 ZA - en 1/5

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of : Toxic fumes may be released.

fire

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Protective gloves
Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):









8.4. Exposure limit values for the other components

No additional information available

28/02/2020 ZA - en 2/5

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline solid.

Molecular mass : 74.5513 g/mol

Colour
Colour
Codour
Codour
Codour threshold
Codour thres

: 770 °C Melting point Freezing point : Not applicable : 1420 °C Boiling point Flash point : Not applicable Auto-ignition temperature : Not applicable Decomposition temperature : No data available Flammability (solid, gas) Non flammable Vapour pressure No data available : No data available Vapour pressure at 50 °C Relative vapour density at 20 °C : No data available

Relative density : 1.984 Type: 'relative density'

Relative density of saturated gas/air mixture No data available Density No data available : No data available Relative gas density Solubility : Water: 355 g/l (25°C) Partition coefficient n-octanol/water (Log Pow) : No data available Partition coefficient n-octanol/water (Log Kow) : No data available : No data available Viscosity, kinematic Viscosity, dynamic : No data available : No data available Explosive properties Oxidising properties No data available Explosive limits : Not applicable Lower explosive limit (LEL) : No data available Upper explosive limit (UEL) : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : May be harmful if swallowed.

28/02/2020 ZA - en 3/5

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

POTASSIUM CHLORIDE (7447-40-7)

LD50 oral rat ≈ 3020 mg/kg bodyweight Animal: rat, Animal sex: female

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

POTASSIUM CHLORIDE (7447-40-7)

NOAEL (chronic, oral, animal/male, 2 years) ≈ 1820 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other:Effect

type: toxicity (migrated information)

Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified

POTASSIUM CHLORIDE (7447-40-7)

NOAEL (oral, rat, 90 days) ≈ 1820 mg/kg bodyweight Animal: rat, Animal sex: male

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-

term (acute)

: Not classified.

Hazardous to the aquatic environment, long-

term (chronic)

: Not classified

POTASSIUM CHLORIDE (7447-40-7)	
LC50 fish 1	880 mg/l Test organisms (species): Pimephales promelas
EC50 other aquatic organisms 1	440 – 880 mg/l Test organisms (species): other:see below
EC50 other aquatic organisms 2	580 – 670 mg/l Test organisms (species): other:see below
EC50 72h algae (1)	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

12.2. Persistence and degradability

POTASSIUM CHLORIDE (7447-40-7)

Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

POTASSIUM CHLORIDE (7447-40-7)

Bioaccumulative potential No additional information available

12.4. Mobility in soil

POTASSIUM CHLORIDE (7447-40-7)

Mobility in soil No additional information available

12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SANS	IMDG	IATA
14.1. UN number		
Not regulated for transport		

28/02/2020 ZA - en 4/5

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

SANS	IMDG	IATA
14.2. Proper Shipping Name		
Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
	:	
	No supplementary information available	

14.6. Special precautions for user

- SANS

No data available

- IMDG

No data available

- IATA

No data available

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

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health, and environmental national regulations specific for the product

Regulatory reference : SANS 10234:2008; SANS 11014:2010; SANS 10228:2012; SANS 10229:2010; SANS 10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; National

Road Traffic Act 93 of 1996.

SECTION 16: Other information

Issue date : 07/02/2020
Revision date : 07/02/2025

Full text of H-statements:

H303 May be harmful if swallowed

SDS South Africa

The data provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge. The data relates to the specific product as named and is ntended as a guide to the safe handling of the product in all its facets. The data may no longer be valid if the product is used in any process or in combination with other products. This SDS is not a quality specification nor any form of guarantee.

28/02/2020 ZA - en 5/5