Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 01/06/2022 Version: 0.0

Doc No: SDS-960.036/2



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance

Substance name : Potassium chloride

EC no : 231-211-8 CAS No : 7447-40-7

Type of product : Pure substance, Hygroscopic substance. Preventive measures apply to the substance in dry

state only

Formula : KCl

Chemical structure :

CI K[↑]

Synonyms : camcopot / chloride of potash / chloropotassuril / chlorvescent / diffu-K / dipotassium dichloride

/ emplets potassium chloride / enseal / enseal potassium chloride / kalcorid / kaleorid / kalitabs / kalium duriles / kaochlor / kaon-Cl / kaon-Cl 10 / kaon-Cl tabs / kaskay / kay ciel / kayback / kay-cee-l / K-contin / K-lor / klor-con / klotrix / K-lyte/Cl / K-norm / K-predne-dome / K-prende-dome / K-tab / lento-kalium / leo K / micro K / monopotassium chloride / muriate of potash / nat-sylvite / natural sylvite / neobakasal / nu-K / peter-kal / pfiklor / potassium monochloride / potassium muriate / potavescent / rekawan / repone K / slow-K / slow-K tablets / span-K / super

K / sylvine / sylvite / tripotassium trichloride

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemical

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

ISOLAB Laborgeräte GmbH

Am Dillhof 2 - 63863 Eschau / GERMANY

Tel: + 49 93 74 / 978 55-0 Fax: +49 93 74 / 978 55-29 prodsafe@isolab.de

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Germany	Giftnotruf der Charité CBF, Haus VIII (Wirtschaftgebäude), UG	Hindenburgdamm 30 12203 Berlin	+49 (0) 30 19240	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

No additional information available

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SECTION 3: Composition/information on ingredients

3.1. **Substances**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Potassium chloride	(CAS No) 7447-40-7 (EC no) 231-211-8	99 - 100	Not classified

Full text of H-statements; see section 16

3.2. **Mixtures**

Not applicable

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general

: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact

Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.

First-aid measures after eye contact

Rinse with water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation

First-aid measures after ingestion

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Victim is fully conscious: immediately induce vomiting. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.

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

: AFTER INHALATION OF DUST: Slight irritation. Symptoms/injuries after inhalation

Symptoms/injuries after skin contact : No effects known. Symptoms/injuries after eye contact : Not irritating.

Symptoms/injuries after ingestion

: AFTER ABSORPTION OF HIGH QUANTITIES: Feeling of weakness. Gastrointestinal complaints. Nausea. Vomiting. Diarrhoea. Change in the haemogramme/blood composition. Cardiac and blood circulation effects. Low arterial pressure. Dizziness. Disturbances of heart rate. Cramps/uncontrolled muscular contractions. Disturbances of consciousness.

: No effects known. Chronic symptoms

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

No additional information available

SECTION 5: Firefighting measures

Extinguishing media

: Adapt extinguishing media to the environment. Suitable extinguishing media Unsuitable extinguishing media : No unsuitable extinguishing media known.

Special hazards arising from the substance or mixture 5.2.

Fire hazard : DIRECT FIRE HAZARD. Non combustible.

Explosion hazard DIRECT EXPLOSION HAZARD. Not applicable. INDIRECT EXPLOSION HAZARD. Not

applicable.

Advice for firefighters

Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to

fire/heat: have neighbourhood close doors and windows.

Firefighting instructions : Dilute toxic gases with water spray.

Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment

: Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. See "Material-Handling" to select protective clothing.

Emergency procedures

: Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes.

Measures in case of dust release

: In case of dust production: keep upwind. Dust production: have neighbourhood close doors and

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

For containment

: Contain released substance, pump into suitable containers. Plug the leak, cut off the supply.

Knock down/dilute dust cloud with water spray.

Methods for cleaning up

Stop dust cloud by humidifying with water. Scoop solid spill into closing containers. Wash down leftovers with plenty of water. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Comply with the legal requirements. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Avoid raising dust. Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

7.2. Conditions for safe storage, including any incompatibilities

Heat and ignition sources

: KEEP SUBSTANCE AWAY FROM: heat sources.

Information on mixed storage

: KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. water/moisture.

Storage area

: Store in a cool area. Store in a dry area. Keep container in a well-ventilated place. Keep only in

the original container. Meet the legal requirements. Keep out of direct sunlight.

Special rules on packaging

: SPECIAL REQUIREMENTS: closing. watertight. dry. correctly labelled. meet the legal

requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: No data available. MATERIAL TO AVOID: No data available.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Materials for protective clothing:

GIVE EXCELLENT RESISTANCE: No data available. GIVE GOOD RESISTANCE: butyl rubber. nitrile rubber. GIVE LESS RESISTANCE: No data available. GIVE POOR RESISTANCE: No data available

Hand protection:

Gloves

Eye protection:

Safety glasses. In case of dust production: protective goggles

Skin and body protection:

Protective clothing

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Respiratory protection:

Dust production: dust mask with filter type P1

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline solid.

Molecular mass : 74.55 g/mol

Colour : White.

Odour dour threshold : Odourless.

Odour threshold : No data available

pH : 4 - 11 (25 °C)

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 770 °C

Freezing point No data available : 1413 °C (1013 hPa) Boiling point Flash point : Not applicable Auto-ignition temperature : Not applicable Decomposition temperature No data available Flammability (solid, gas) No data available Vapour pressure : Not applicable Relative vapour density at 20 °C : No data available Relative density 2 (1.98g /m3; 20 °C) Density : 1.98 g/cm³ (20 °C)

Solubility : Soluble in water. Insoluble in oils/fats.

Water: 30 g/100ml (20°C) Ethanol: 0.4 g/100ml

Log Pow : -0.46 (Estimated value)

Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

Minimum ignition energy : Not applicable Saturation concentration : 0 g/m³

VOC content : Not applicable (inorganic)
Other properties : Substance has neutral reaction.

SECTION 10: Stability and reactivity

10.1. Reactivity

On burning: release of toxic and corrosive gases/vapours (hydrogen chloride).

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Potassium chloride (7447-40-7)		
LD50 oral rat	2600 mg/kg	
Skin corrosion/irritation	: Not classified pH: 7	
Serious eye damage/irritation	: Not classified pH: 7	
Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity	Not classifiedNot classifiedNot classified	
Reproductive toxicity STOT-single exposure	: Not classified: Not classified	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	

SECTION 12: Ecological information

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Ecology - general : Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.

Ecology - air : Not class

: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 842/2006). TA-Luft Klasse

5.2.1.

Ecology - water : Slightly harmful to fishes (LC50(96h) 100-1000 mg/l). Slightly harmful to invertebrates

(Daphnia) (EC50 (48h): 100 - 1000 mg/l). Slightly harmful to algae (EC50 (72h) > 100 mg/l).

Not harmful to activated sludge.

Potassium chloride (7447-40-7)	
LC50 fish 2	2010 mg/l (LC50; 96 h; Lepomis macrochirus)
EC50 Daphnia 2	660 mg/l (EC50; EPA 600/4-90/027; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit algae 2	> 100 mg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Desmodesmus subspicatus; Static system; Fresh water; Experimental value)

12.2. Persistence and degradability

Potassium chloride (7447-40-7)		
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the substance available.	
ThOD	Not applicable (inorganic)	

12.3. Bioaccumulative potential

Potassium chloride (7447-40-7)	
Log Pow -0.46 (Estimated value)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

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Additional information



SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Remove waste in accordance with local and/or national regulations. Precipitate/make insoluble.

Immobilize the toxic or harmful components. Remove to an authorized dump. Treat using the

best available techniques before discharge into drains or the aquatic environment.

: LWCA (the Netherlands): KGA category 05. Can be considered as non hazardous waste

according to Directive 2008/98/EC.

European List of Waste (LoW) code : 06 03 14 - solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper s	hipping name		·	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport ha	azard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Potassium chloride is not on the REACH Candidate List

Potassium chloride is not on the REACH Annex XIV List

VOC content : Not applicable (inorganic)

15.1.2. National regulations

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VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex

1 or 2; ID No. 230)

WGK remark : Classification water polluting in compliance with Verwaltungsvorschrift wassergefährdender

Stoffe (VwVwS) of 27 July 2005 (Anhang 2)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Ontwikkeling

: The substance is not listed

The substance is not listedThe substance is not listed

: The substance is not listed

: The substance is not listed

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
PBT	Persistent Bioaccumulative Toxic
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

SDS ISOLAB

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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