

SAFETY DATA SHEET

according to 2012 OSHA Hazard Communication Standard (29CFR 1910.1200) as amended



Potassium chloride

Creation date 01st February 2024

Revision date

Version

1

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

Product identifier

Chemical name

Potassium chloride

CAS number

Potassium chloride

EC (EINECS) number

7447-40-7

Registration number

231-211-8

Recommended use

Component of infusion and dialysis solutions. Food supplement.

Substance uses advised against

Details of the supplier of the safety data sheet

Supplier

Name or trade name

Macco Organiques, s.r.o.

Address

Zahradní 1938/46c, Bruntál 1, 792 01

Czech Republic

Identification number (CRN)

26819210

VAT Reg No

CZ26819210

Phone

+420 555 530 300

E-mail

macco@macco.cz

Emergency telephone number

CHEMTREC®, Inside the USA: 800-424-9300

CHEMTREC®, Outside the USA: 001-703-527-3887

SECTION 2: Hazards identification

Classification of the substance or mixture

This chemical is **not considered hazardous** by the 2012 OSHA Hazard Communication Standard (29CFR 1910.1200)

Most serious adverse physico-chemical effects

Not specified.

Most serious adverse effects on human health and the environment

Not specified.

Label elements

none required

Hazard not otherwise classified (HNOC)

Non identified

SECTION 3: Composition/information on ingredients

Identification numbers	Substance name	Content in % weight	Classification according to 29CFR 1910.1200	Note
CAS: 7447-40-7 EC: 231-211-8 Registration number: -----	substance main component Potassium chloride	99-100	not classified as dangerous	

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SECTION 4: First aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. In the event of unconsciousness, do not provide food by mouth.

Inhalation

Terminate the exposure immediately; move the affected person to fresh air. In the event of issues, find medical advice.

Skin contact

Remove contaminated clothes. And wash it before reuse. Rinse skin with water or shower. Depending on the situation, call medical rescue service or ensure medical treatment.

Eye contact

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Provide medical treatment, specialized if possible.

Ingestion

Rinse out the mouth with water and provide 2-5 dL of water. DO NOT INDUCE VOMITING! In the event of issues, find medical help.

Most important symptoms and effects, both acute and delayed

Inhalation

May cause respiratory irritation.

Skin contact

Possible irritation.

Eye contact

Possible irritation.

Ingestion

Nausea, stomach pain, vomiting, diarrhoea.

Notes to Physician

Symptomatic treatment.

SECTION 5: Firefighting measures

Suitable extinguishing media

Accommodate extinguishing components to the location of fire.

Unsuitable extinguishing media

Water - full jet.

Special hazards arising from the substance or mixture

Upon heating, decomposition occurs with the release of hydrogen chloride or chlorine.

Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves. Use a self-contained breathing apparatus and full-body protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Follow the instructions in the Sections 7 and 8. Use personal protective equipment for work. Prevent contact with skin and eyes. Do not inhale dust. Provide sufficient ventilation.

Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

Methods and material for containment and cleaning up

Place the spilled product mechanically in the properly closed containers and dispose of it according to the section 13. After removal of the product, wash the contaminated site with plenty of water.

Reference to other sections

See the Section 7, 8 and 13.

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SECTION 7: Handling and storage

Precautions for safe handling

Use personal protective equipment as per Section 8. Do not eat, drink or smoke when using this product. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Observe valid legal regulations on safety and health protection.

Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

Control parameters

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Potassium chloride DNEL					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	1064 mg/m ³	Chronic effects systemic		
Workers	Inhalation	5325 mg/m ³	Acute effects systemic		
Workers	Dermal	303 mg/kg bw/day	Chronic effects systemic		
Workers	Dermal	910 mg/kg bw/day	Acute effects systemic		
Consumers	Inhalation	273 mg/m ³	Chronic effects systemic		
Consumers	Inhalation	1365 mg/m ³	Acute effects systemic		
Consumers	Oral	91 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	455 mg/kg bw/day	Acute effects systemic		

Potassium chloride PNEC			
Route of exposure	Value	Value determination	Source
Freshwater environment	100 µg/l		
Water (intermittent release)	1 mg/l		
Marine water	100 µg/l		
Microorganisms in sewage treatment	10 mg/l		

Appropriate engineering controls

Good ventilation, showers, eyewash station

Personal protective equipment

Do not eat, drink and smoke during work. Follow the usual measures intended for health protection at work and especially for good ventilation. Provide showers and eye wash possibility. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

When handling in long-term or repeatedly, use protective gloves. EN ISO 374-1. Other protection: protective workwear.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Respirator.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.

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SECTION 9: Physical and chemical properties

Appearance	
Physical state	solid, crystalline, powder
Colour	colourless, white
Odour	without fragrance
pH	6 (5% solution at 20 °C)
Melting point/freezing point	770 °C
Boiling point or initial boiling point and boiling range	1411 °C
Flash point	not applicable
Flammability	non-flammable
Evaporation rate	not applicable
Upper and lower explosion limit	not applicable
Vapour pressure	not applicable
Vapour density	not applicable
Relative density	1.99
Solubility in water	34.2g / 100g 20°C
Partition coefficient n-octanol/water (log value)	not applicable
Auto-ignition temperature	not applicable
Decomposition temperature	not determined
Kinematic viscosity	not applicable
Oxidising properties	It is not oxidising

SECTION 10: Stability and reactivity

Reactivity

The substance is non-flammable.

Chemical stability

The product is stable under normal conditions.

Possibility of hazardous reactions

The product is stable under normal conditions.

Conditions to avoid

Humid air. Protect from overheating and frost.

Incompatible materials

Strong oxidizing agents releasing chlorine. Protect against strong acids, bases and oxidizing agents.

Hazardous decomposition products

Not developed under normal uses. At high temperatures, irritating or toxic gases may be formed.

SECTION 11: Toxicological information

Acute toxicity

Based on available data the classification criteria are not met.

Potassium chloride					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	3020 mg/kg bw		Rat	F

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Skin corrosion/irritation

No data available for the substance. Based on available data the classification criteria are not met.

Serious eye damage/irritation

No data available for the substance. Based on available data the classification criteria are not met.

Respiratory or skin sensitisation

No data available for the substance. Based on available data the classification criteria are not met.

Germ cell mutagenicity

No data available for the substance. Based on available data the classification criteria are not met.

Carcinogenicity

No data available for the substance. Based on available data the classification criteria are not met.

IARC - not listed; NTP - not listed; ACGIH - not listed; OSHA - not listed; Mexico - not listed

Reproductive toxicity

No data available for the substance. Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

No data available for the substance. Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

No data available for the substance. Based on available data the classification criteria are not met.

Aspiration hazard

No data available for the substance. Based on available data the classification criteria are not met.

Endocrine disruptor information

The substance does not have endocrine disrupting properties.

SECTION 12: Ecological information

Ecotoxicity

Based on available data the classification criteria are not met.

Acute toxicity

Potassium chloride					
Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀	OECD 203	880 mg/l	96 hours	Fish (Pimephales promelas)	Fresh water
EC ₅₀	OECD 202	660 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water
EC ₅₀	OECD 201	100 mg/l	72 hours	Algae (Scenedesmus subspicatus)	
EC ₅₀	OECD 209	1 g/l	3 hours	Microorganisms	Activated sludge

Persistence and degradability

No data available for the substance.

Bioaccumulative potential

Not available.

Mobility in soil

Not available.

Other adverse effects

Not available.

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SECTION 13: Disposal considerations

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

SECTION 14: Transport information

UN number or ID number

not subject to transport regulations

UN proper shipping name

not relevant

Transport hazard class(es)

not relevant

Packing group

not relevant

Environmental hazards

not relevant

Special precautions for user

Reference in the Sections 4 to 8.

Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

United States of America Inventory

TSCA*

listed

TSCA* Inventory notification - Active-Inactive

active

TSCA* - EPA Regulatory Flags

not listed

*TSCA: US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

TSCA 12(b) - Notices of Export

Not applicable

U.S. Federal Regulations

SARA 313

Not applicable

SARA 311/312 Hazard Categories

See section 2 for more information

CWA (Clean Water Act)

Not applicable

Clean Air Act

Not applicable

OSHA - Occupational Safety and Health Administration

Not applicable

CERCLA

Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ):

N

DOT Marine Pollutant

N

DOT Severe Marine Pollutant

N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

REACH (1907/2006) - Annex XIV - Substances Subject to Authorization

REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances

REACH (1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)

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

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OECD HPV

Persistent Organic Pollutant

Ozone Depletion Potential

Restriction of Hazardous Substances (RoHS)

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

Listed

Not applicable

Not applicable

Not applicable

Not applicable

Other International Regulations

Seveso III Directive (2012/18/EC) Qualifying Quantities for Major Accident Notification

Seveso III Directive (2012/18/EC) Qualifying Quantities for Safety Report Requirements

Rotterdam Convention (PIC)

Basel Convention (Hazardous Waste)

Not applicable

Not applicable

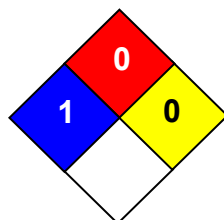
Not applicable

Not applicable

SECTION 16: Other information

NFPA (National Fire Protection Association)

Health	1
Flammability	0
Reactivity	0
Special Hazard	None



4: Extreme, 3: High, 2: Moderate, 1: Slight, 0: Insignificant; OX: Oxidiser, W: Water Reactives, SA: Simple Asphyxiants

Competent person responsible for the safety data sheet

Name

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Creation Date

01-Feb-2024

Revision Date

Revision Summary

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

End of SDS

