Safety Data Sheet according to Regulation (EC) No. 1907/2006



Potassium Chloride for Industrial Applications

Version 2.1

Revision Date: 25.11.2008

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

•	Trade name	Potassium Chloride approx. 96 % KCl, technical Potassium Chloride approx. 97 % KCl, technical standard Potassium Chloride approx. 99 % KCl, technical industrial Potassium Chloride 99.3 % KCl, technically pure Potassium Chloride 99.7 % KCl, chemically pure
•	Use	Miscellaneous industrial applications
•	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
•	Responsible Department	Marketing
		Telephone: +49-(0)561-9301-2356 Telefax: +49-(0)561-9301-1744 marketing@kali-gmbh.com
•	Emergency telephone	Giftinformationszentrale Nord, Göttingen, Germany
		Telephone: +49 (0)551 19240

2. HAZARDS IDENTIFICATION

 Risk advice to man and the environment
 Not a hazardous substance or preparation according to ECdirectives 67/548/EEC or 1999/45/EC.

3. COMPOSITION/INFORMATION ON INGREDIENTS

	Chemical Name	CAS-No.	EINECS-No.	Symbol(s)	R-phrase(s)	Content [%]
•	Potassium Chloride	7447-40-7	231-211-8			> 95

Special Notes/Explanations:

May contain anti-dusting additives in very small quantities. May contain yellow potassium prussiate and sodium carbonate as anti-caking additives in very small quantities.

<u>4. FIRST AID MEASURES</u>

٠	General advice	If symptoms persist, seek medical advice.
٠	Inhalation	Fresh air.

- Skin contact
 Rinse with water.
- Eye contact Immediately flush eye(s) with plenty of water.
- Ingestion
 Clean mouth with water and drink afterwards plenty of water.



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5. FIRE-FIGHTING MEASURES

•	Suitable extinguishing media	Product does not burn, fire-extinguishing activitys according to surrounding.
•	Extinguishing media which shall not be used for safety reasons	none
•	Specific hazards during fire fighting	Evolution of toxic gases/vapours. hydrogen chloride
•	Special protective equipment for fire-fighters	Respiratory protection
•	Further information	Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

•	Personal precautions	Avoid breathing dust.
٠	Environmental precautions	Do not let product enter drains.
•	Methods for cleaning up	Sweep up and shovel into suitable containers for disposal.Flush away residues with water.

7. HANDLING AND STORAGE

Handling

•	Advice on safe handling	No special measures necessary provided product is used correctly. Handle in accordance with good industrial hygiene and safety practice.
	Advice on protection against	The product is not flammable No special precautions required

 Advice on protection against The product is not flammable.No special precautions re fire and explosion

Storage

- Requirements for storage Keep in a dry place.
 areas and containers
- Storage with other Segregate from strong acids.Keep away from water.
 substances
- German storage class
 Storage stability
 May be kept indefinitely if stored properly.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures

none

Personal protective equipment

٠	Respiratory protection	In case of dust formation wear micro dust mask.
٠	Hand protection	Hand protection not required.

Eye protection
 In case of dust formation: Safety glasses

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Skin and body protection not required
 Hygiene measures When using do not eat or drink.Wash hands before breaks and at the end of workday.

none

Protective measures

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

- Form crystalline
- Colour white
- Odour almost odourless

Sa • •	fety data pH Melting temperature Flash point	Value 8 - 9 770 °C	Temperature 25 °C	Condition 5 % solution	Note internal method REF. 1 not applicable
•	Autoignition temperature	none			
•	Density	1,989 g/cm³			
•	Bulk density	ca.1.100 kg/m³			
•	Water solubility	342 g/l	20 °C	1.013 hPa	REF. 1
٠	Oxidizing properties	none			
٠	Explosive properties	none			

10. STABILITY AND REACTIVITY

٠	Conditions to avoid	Note: corrosive to metals
•	Hazardous decomposition products	No hazardous decomposition products known.
•	Hazardous reactions	Reacts with strong acids. Reacts with strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

•	Acute oral toxicity	LD50 rat Dose: 2.600 mg/kg REF. 2
•	Acute inhalation toxicity	Remarks: no data available
٠	Acute dermal toxicity	Remarks: no data available
•	Skin irritation	Result: non-irritant Remarks: Practical experience.
•	Eye irritation	Result: non-irritant Remarks: Practical experience.
٠	Sensitisation	Result: non-sensitizing Remarks: Practical experience.



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Further information

No experimental evidence available regarding harmful effects on human fertility. Substance has no mutagen activity (Ames test). Our dates do not cover total texture toxic judgement.

12. ECOLOGICAL INFORMATION

•	Ecotoxicity effects Toxicity to fish	Value LC50 2.300 mg/l (48 h)	Species golden orfe	Method DIN 38412	Note REF. 3
•	Toxicity to daphnia	EC50 825 mg/l (48 h)	Daphnia magna	DIN 38412	REF. 3
•	Toxicity to algae	EC50 2.500 mg/l (72 h)	Algae	DIN 38412	REF. 3
•	Toxicity to bacteria	EC20 > 9.600 mg/l (0,08 h)	Bacteria	DIN 38412	REF. 3
٠	Biodegradability	not applicable			
•	Physico-chemical removability	not applicable			
•	Adsorbed organic bou halogens (AOX)	nd not applicable			
	Additional acological	Inorganic produc	t which cannot be a	liminated from v	water by

Additional ecological Inorganic product which cannot be eliminated from water by biological purification processes. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction

of low concentrations.

13. DISPOSAL CONSIDERATIONS

٠	Product	Test for use in agriculture.
٠	Packaging	Completely emptied packagings can be given for recycling.
•	Contaminated packaging	Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.
•	Waste key for the unused product	02 01 09: Wastes of chemicals for the agriculture excepted of those, which are listed under 02 01 08

14. TRANSPORT INFORMATION

Further Information

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Labelling according to EC Directives

• no labelling required (no dangerous properties)



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National legislation

• Water contaminating class (Germany)

WGK 1: slightly water endangering

16. OTHER INFORMATION

Further information

The information contained herein is based on the present-day standard of knowledge and does not therefore guarantee certain properties.

Recipients of our product have to take on responsibility for observing existing laws and regulations. See product leaflet.

Sources of key data used to compile the Safety Data Sheet:

- **REF.1** Gmelins Handbuch der Anorganischen Chemie, System-Nr. 22, Verlag Chemie Berlin, 8. Auflage,
- REF. 2 Sbornik Vysledku, Toxixiologickeho Vysetreni Latek A Prinpravku, p. 8, 1972
- REF. 3 Kommision Bewertung wassergefährlicher Stoffe, Data sheet No. 230, 1992