

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 % KCI, technical industrial Potassium Chloride 99.3 % KCI, technically pure Potassium Chloride 99.7 % KCI, 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 Giftinformationszentrale Nord, Göttingen, Germany Emergency telephone Telephone: +49 (0)551 19240

#### 2. HAZARDS IDENTIFICATION

• Risk advice to man and the environment Not a hazardous substance or preparation according to EC-directives 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.

#### **4. FIRST AID MEASURES**

- General advice
   If symptoms persist, seek medical advice.
- 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.

Version 2.1

Revision Date: 25.11.2008

### **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.
•	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 fire and explosion	The product is not flammable.No special precautions required.

Storage

•	Requirements for storage areas and containers	Keep in a dry place.
•	Storage with other substances	Segregate from strong acids.Keep away from water.
•	German storage class	13 Non Combustible Solids
•	Storage stability	May be kept indefinitely if stored properly.

#### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Engineering measures**

• none

#### Personal protective equipment

•	Respiratory protection	In case of dust formation wear micro dust mask.
---	------------------------	---

- Hand protection Hand protection not required.
- Eye protection
   In case of dust formation:Safety glasses



Version 2.1

- Skin and body protection not required • When using do not eat or drink.Wash hands before breaks and at Hygiene measures the end of workday. none
- Protective measures

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

- Form crystalline •
- Colour white ٠
- Odour almost odourless

Safety data <ul> <li>pH</li> <li>Melting temperature</li> <li>Flash point</li> </ul>	<b>Value</b> 8 - 9 770 °C	Temperature 25 °C	<b>Condition</b> 5 % solution	<b>Note</b> internal method REF. 1 not applicable
<ul> <li>Autoignition temperature</li> </ul>	none			
Density	1,989 g/cm <sup>3</sup>			
<ul> <li>Bulk density</li> </ul>	ca.1.100 kg/m <sup>3</sup>			
Water solubility	342 g/l	20 °C	1.013 hPa	REF. 1
<ul> <li>Oxidizing properties</li> </ul>	none			
<ul> <li>Explosive properties</li> </ul>	none			

# **10. STABILITY AND REACTIVITY**

•	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
•	Acute dermal toxicity	Remarks: no data available
•	Skin irritation	Result: non-irritant Remarks: Practical experience.
•	Eye irritation	Result: non-irritant Remarks: Practical experience.
•	Sensitisation	Result: non-sensitizing Remarks: Practical experience.







 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	<b>Value</b> LC50 2.300 mg/l (48 h)	Species golden orfe	Method DIN 38412	<b>Note</b> 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
	Biodegradability	not applicable			

- Biodegradability not applicable
   Physico-chemical not applicable
   removability
   Adsorbed organic bound halogens (AOX)
   Additional applicable
  - Additional ecological<br/>informationInorganic product which cannot be eliminated from water by<br/>biological purification processes. Inhibition of degradation activity in<br/>activated sludge is not to be anticipated during correct introduction<br/>of low concentrations.

# **13. DISPOSAL CONSIDERATIONS**

•	Product Packaging	Test for use in agriculture. 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)

#### Version 2.1



Revision Date: 25.11.2008

#### 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