

1. Identification of the substance/preparation

Name of product	SOLUMOP [®]
Manufacturer/distributor	K+S Kali GmbH Bertha-von-Suttner-Str. 7, D-34131 Kassel Postbox 10 20 29, D-34111 Kassel Phone +49 561 9301-0, Fax +49 561 9301-1436
Advice	Abt. ZU Phone +49 561 9301-1604 Fax +49 561 93854-5095
Emergency advice	Abt. ZU Phone +49 561 9301-1604

2. Composition/information on ingredients

CAS-No. 007447-40-7 Potassium Chloride (KCI)

Additional advice

May contain yellow potassium prussiate and sodium carbonate as anti-caking additives in very small quantities. Designation according to EC Fertilizer-Directive 76/116/EEC and supplementary directives: Muriate of Potash 60

3. Special hazards information for man and environment

R-phrases

not applicable

Special hazards information for humans and environment no

4. First aid measures

General information In the event of persistent symptoms receive medical treatment.

In case of inhalation

Ensure of fresh air.

In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off with water.

In case of eye contact

In case of contact with eyes rinse thoroughly with water.

In case of ingestion

Rinse out mouth thoroughly with water.

5. Fire-fighting measures

Suitable extinguishing material

Product does not burn, fire-extinguishing activitys according to surrounding.

Extinguishing material that may not be used for safety reasons

no



Special exposure hazards arising from the substance, combustible products or resulting gases

In case of fire formation of dangerous gases possible. Hydrogen chloride (HCl)

Special protective equipment for firefighters

Do not inhale explosion and/or combustion gases.

Additional information

Collect contaminated firefighting water separately, must not be discharged into the drains.

6. Accidental release measures

Personal precautions

Avoid dust formation.

Environmental precautions

Do not discharge into the drains or bodies of water..

Methods for cleaning up/taking up

Avoid dust formation. Disposal according to regulations. Flush away residues with water. Take up mechanically and send for disposal.

Additional Information

Informations for safe handling look up chapter 7. Informations for personal protective equipment look up chapter 8. Informations for disposal look up chapter 13.

7. Handling and storage

Advice on safe handling

No special measures necessary if used correctly. Take the usual precautions when handling with chemicals.

Advice on protection against fire and explosion

The product is not combustible. No special measures necessary.

Requirements for storage rooms and vessels No special measures required.

Advice on storage compatibility

Keep at a distance of strong acids. Keep away from water.

Further information on storage conditions Store in a dry place.

Storage group 13

Information on storage stability Unlimited stability.

8. Exposure controls / personal protection

Additional advice on system design no

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



Hand protection
Rubber gloves

Eye protection

tightly fitting goggles

Skin protection

General protective measures no

Hygiene measures

Do not eat or drink when working. Brush soiled clothing. After work wash thoroughly.

9. Physical and chemical properties

Form crystalline		Colour vhite		Odour odourless	
Data relevant for safety	Value	Temperature	at	Method	Remark
pH value in delivery state	7	20°C	342 g/l	DIN 38404-5	neutral
boiling point	1411 °C				Ref. (1)
melting point	770 °C				Ref. (1)
Flash point	not applicable				
Flammable solid	no				
Combustion temperature	no				
Autoignition	no				
Vapour pressure	1,5 Torr	700 °C		static	Ref. (1)
Density	1,989 g/cm3	20 °C	1013 hPa		Ref. (1)
Bulk density	1000-1200 kg/m3				
Solubility in water	342 g/l	20 °C	1013 hPa		Ref. (1)
Solubility/other	ca. 0,52 Gew-%	25 °C	methanol		Ref. (1)

soluble in alcoholes



	Value	Temperature	at	Method	Remark
Partition coefficient	not determined				
(log pOW) Combustion value	1				
Oxidizing properties no					
Explosive properties no					
Additional information Physical dates refer to pu	re product.				
Stability and reactivity					
Conditions to avoid					
Corrosive to metals.					

Materials to avoid

HCl , Cl₂ Reactions with strong acids. Reactions with strong oxidising agents. Evolution of toxic gases/vapours.

Hazardous decomposition products

No hazardous decomposition products known.

11. Toxicological information

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
LD 50 acute oral	2600 mg/kg	rat		Ref. (2)
LD 50 acute dermal	not determined			
LC 50 acute inhalation	not determined			
Irritability skin	no			experiences
Irritability eye	no			experiences
Sensitization skin	no			experiences
Sensitization respiratory system	no			experiences

Toxicity test (Additional information)

No experimental indication of genotoxic effects. Substance has no mutagen activity (Ames test).



Additional information

Toxical dates refer to pure product. Our dates do not cover total texture toxic judgement. Follow the usual hygenic directives for handling with chemicals.

12. Ecological information

Data on elimination	on (persistence an Elimination rate	d degradability) Method of analysis	Method	Validation	
Physico-			not applicable		
chemical degradability	Inorganic product, o	annot be eliminated from th	e water by biological	purification processes.	
Biological			not applicable		
degradability	Inorganic product, o	annot be eliminated from th	e water by biological	purification processes.	
Degradability			not applicable		
	Inorganic product, o	annot be eliminated from th	e water by biological	purification processes.	
Biological			not applicable		
eliminability	Inorganic product, o	annot be eliminated from th	e water by biological	purification processes.	

Ecotoxicological effects	
Value	

LUUIUNIUN	Value	Species	Method	Validation	
Fish	LC50 2300 mg/l (48 h)	Golden orfe	DIN 38412 part 31	Ref. (3)	
Daphnia	EC50 825 mg/l (48 h)	Daphnia magna	DIN 38412 part 11	Ref. (3)	
Algae	EC50 2500 mg/l (72 h)	Scenedesmus subspicatus	DIN 38412 part 33	Ref. (3)	
Bacteria	EC20 > 9,6 g/l (5 min)	Photobacterium phosphoreum	DIN 38412 part 8	Ref. (3)	

Behaviour in sewage plant

When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely.

Additional ecological	information		
•	Value	Method	Remark
AOX	not applicable		

General regulation

Product is not allowed to discharge into aquatic environment.

! 13. Disposal considerations

Waste code No.	Name of waste
02 01 09	agrochemical waste other than those mentioned in 02 01 08
06 03 14	solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13



Recommendations for the product

In accordance with regulations for special waste, must be taken, after pretreatment, to an authorised special waste disposal site.

Recommendations for packaging

Uncontaminated packaging may be taken for recycling. Totally emptied packaging may be taken for recycling.

14. Transport information

Transport/further informations

No hazardous material as defined by the prescriptions.

15. Regulatory information

Remarks for classification	
R-phrases	
not applicable	
S-phrases not applicable	
Special labelling for certain preparent no	ations
National regulations	
Restriction of occupation no	
Decree for case of interference/remarks	not applicable
Classification according to VbF/remarks	VbF: is not subject to decree for compostible liquids.
German TA LUFT remarks not applicable	
Water hazard class	1 KBwS-classification
Other regulations, restrictions a	and prohibition regulations

no

16. Other information

Recommendend uses and restrictions

no

Further information

The information contained herein is based on our present knowledge and is not meant to guarantee product properties. Recipients of our product must take responsibility for observing existing laws and regulations. Refer to product information paper.

All declarations of safety-data-sheet refer to pure substance.

CAS-No. refers to pure substance.



Sources of key data used

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): Data sheet No. 230, Kommision Bewertung wassergefährlicher Stoffe, Bundesgesundheitsamt, P. O. Box 330013, D-14191 Berlin, 1992