

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 08.10.2018

Version number 10

Revision: 08.10.2018

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

- **Date of compilation:** 08.10.2018
- **1.1 Product identifier**
- **Trade name:** Potassium Y cygti rcu
- **Synonym(s):**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- **Application of the substance / the preparation:**  
Chemicals for various applications  
Construction chemicals  
Fire retarding agent  
Binder
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**  
Kreidezeit Naturfarben GmbH  
Kassemühle 3  
D - 31195 Lamspringe  
Germany  
Tel.: +49 (0)5060 6080 650  
Fax.: +49 (0)5060 6080 680
- **E-mail address of the competent person responsible for the Safety Data Sheet:** info@kreidezeit.de
- **Informing department:**  
Quality management department  
Kreidezeit Laboratory, Phone: +49 5060 6080650
- **1.4 Emergency telephone number:**  
Next toxicological information centre or for Germany:  
Beratungsstelle für Vergiftungserscheinungen Mainz (Poison Information Center)  
Phone: +49 6131 / 19 24 0

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008** The product is not classified according to the CLP regulation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
- **Information concerning particular hazards for human and environment:**  
No hazards to be particularly mentioned. Please note the information of this Material Safety Data Sheet.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void

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- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Aqueous solution

- **Dangerous components:**

CAS: 1312-76-1	Silicic acid, potassium salt (MR >3,2)	> 25 < 40%
EINECS: 215-199-1		
Reg.nr.: 01-2119456888-17		

SCL [CAS 1312-76-1 - MR (SiO<sub>2</sub> : K<sub>2</sub>O) > 2.6]

Skin Irrit. 2: ≥ 40 %

Eye Irrit. 2: ≥ 40 %

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Remove contaminated clothing.
- **After inhalation:**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
- **After skin contact:**  
Rinse with plenty of water.  
If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting!  
Call a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** symptomatic treatment

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** Product does not burn - take extinguishing measures according to fire conditions.
- **For safety reasons unsuitable extinguishing agents** void
- **5.2 Special hazards arising from the substance or mixture**  
Can be released in case of fire:  
Toxic or harmful metal oxides
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation.  
Avoid contact with skin and eyes.  
Keep people at a distance and stay on the windward side.  
Danger of slipping on leaked/spilled product.

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- **6.2 Environmental precautions:**  
Damp down gases/fumes/haze with water spray jet.  
Do not allow to enter drainage system, surface or ground water.  
Inform respective authorities in case of a large amount of product reaches water or sewage system.
- **6.3 Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Send for recovery or disposal in suitable containers.  
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Do not breathe vapour/spray.  
Avoid contact with eyes.  
Avoid prolonged or repeated skin contact.
- **Information about protection against explosions and fires:** The product is not flammable.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**  
Observe all local and national regulations for storage of water polluting products.
- **Information about storage in one common storage facility:** Do not store together with acids.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Protect from frost.
- **Minimum storage temperature:** +4 °C
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **DNELs** no data available
- **PNECs** no data available
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**  
Keep away from foodstuffs, beverages and food.  
Instantly remove any contaminated garments.  
Avoid contact with the eyes.  
Avoid close or long term contact with the skin.  
Do not inhale gases / fumes / aerosols.  
Wash hands during breaks and at the end of the work.  
Use skin protection cream for preventive skin protection.
- **Breathing equipment:** Use breathing protection when aerosol or mist is formed.

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- **Recommended filter device for short term use:** Partikelfilter EN 143 Type P2
- **Protection of hands:**  
Protective gloves  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.  
Check the permeability prior to each renewed use of the glove.  
To avoid skin problems reduce the wearing of gloves to the required minimum.
- **Material of gloves**  
Nitrile rubber - NBR  
Recommended thickness of the material:  $\geq 0.4$  mm  
Polychloroprene  
Recommended thickness of the material:  $\geq 0.5$  mm  
Poly vinyl chloride - PVC  
Recommended thickness of the material:  $\geq 0.7$  mm  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**  
Value for the permeation: Level  $\geq 6$   
Protective gloves should be replaced at first signs of wear.  
Permeationszeit / Durchbruchzeit:  $\geq 480$  Minuten (EN 374)  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses
- **Body protection:**  
Light weight protective clothing  
Body protection must be chosen depending on activity and possible exposure.

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

<b>Form:</b>	liquid viscous
<b>Colour:</b>	colourless
<b>Smell:</b>	odourless
<b>Odour threshold:</b>	not applicable
- **pH-value at 20 °C:** 11 - 12
- **Change in condition**

<b>Melting point/Melting range:</b>	$< 0$ °C
<b>Boiling point/Boiling range:</b>	$\geq 100$ °C
- **Flash point:** not applicable
- **Inflammability (solid, gaseous)** not applicable
- **Ignition temperature:** not applicable
- **Decomposition temperature:** not determined
- **Self-inflammability:** Product is not selfigniting.
- **Danger of explosion:** Product is not explosive.
- **Critical values for explosion:**

<b>Lower:</b>	not applicable
<b>Upper:</b>	not applicable
- **Oxidising properties** not classified as oxidising
- **Vapor pressure at 20 °C:** ~23 hPa

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· <b>Density at 20 °C:</b>	1.25 ~ 1.42 g/cm <sup>3</sup>
· <b>Bulk density:</b>	not applicable
· <b>Relative density</b>	not determined
· <b>Vapour density (AIR = 1):</b>	no data available
· <b>Evaporation rate</b>	no data available
· <b>Solubility in / Miscibility with</b>	
<b>Water:</b>	miscible
· <b>Organic solvents:</b>	not determined
· <b>Partition coefficient (n-octanol/water):</b>	Not bioaccumulative
· <b>Viscosity:</b>	
<b>dynamic at 20 °C:</b>	20 - 70 mPa.s (DIN 53015)
<b>kinematic:</b>	not determined
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** see 10.3
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**  
Exothermic reaction with acids  
Reacts with base metals forming hydrogen.
- **10.4 Conditions to avoid** No used as intended
- **10.5 Incompatible materials:**  
Strong acids  
Metals
- **10.6 Hazardous decomposition products:**  
Toxic or harmful metal oxides  
Hydrogen

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**

**1312-76-1 Silicic acid, potassium salt (MR >3,2)**

Oral	LD50	> 5000 mg/kg (rat) (OECD 425)
Dermal	LD50	> 5000 mg/kg (rat) (OECD 402)
Inhalative	LC50/4 h	> 2.06 mg/l (rat) (OECD 403)

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Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	> 5000 mg/kg (rat)
Inhalative	LC50/4 h	> 5 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Slightly irritating
- **Serious eye damage/irritation** Weak irritating effect
- **inhalation:** No irritant effect known.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Repeated dose toxicity** According to information currently no known toxic effects

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- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **carcinogenicity** not classified
- **mutagenicity** not classified
- **toxicity for reproduction** not classified
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity:

#### 1312-76-1 Silicic acid, potassium salt (MR >3,2)

EC50/24 h	> 146 mg/l (daphnia)
LC50/48 h	> 146 mg/l (leuciscus idus)
LC50/96 h	> 100 mg/l (zebra fish (danio rerio))

### 12.2 Persistence and degradability

Anorganic product, is not eliminable from water by means of biological cleaning processes.

### 12.3 Bioaccumulative potential

Not bioaccumulative

### 12.4 Mobility in soil

No further relevant information available.

### Additional ecological information:

· **Chemical Oxygen Demand (COD-value):** not applicable

· **Biochemical Oxygen Demand (BOD5-value):** not applicable

· **AOX-indication:** The product does not contain organically bounded halogens (AOX-free).

### General notes:

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms.

Water hazard class 1 (Self-assessment): slightly hazardous for water

### 12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 12.6 Other adverse effects

No further relevant information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

· **Recommendation** Disposal must be made according to official regulations.

· **European waste catalogue:** Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

### Uncleaned packagings:

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleaning agent:** Water, if necessary with cleaning agent.

## SECTION 14: Transport information

### 14.1 UN-Number

· **ADR, ADN, IMDG, IATA** Void

### 14.2 UN proper shipping name

· **ADR, ADN, IMDG, IATA** Void

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· <b>14.3 Transport hazard class(es)</b>	
· <b>ADR, ADN, IMDG, IATA</b>	
· <b>Class</b>	Void
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b>	Not applicable.
· <b>Marine pollutant:</b>	NO
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	Not dangerous according to the above specifications.
· <b>UN "Model Regulation":</b>	Void

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I ---**
- **Seveso category ---**
- **National regulations**
- **Decree to be applied in case of technical fault:** Directive 96/82/EC does not apply.
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water
- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57**  
The substance is not a SVHC and is not included in the Candidate List.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Reasons for changes:**  
The Material Safety Data Sheet has been revised. Changes in the respective chapters are characterized in the left side edge by \*.
- **Recommended restriction of use:** Industrial use
- **Department issuing SDS:**
- **Abbreviations and acronyms:**  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organisation  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances

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*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*DNEL: Derived No-Effect Level (REACH)*

*PNEC: Predicted No-Effect Concentration (REACH)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*SVHC: Substances of Very High Concern*

*vPvB: very Persistent and very Bioaccumulative*

· **Sources:** These data are based on information submitted by pre-suppliers.

· \* **Data compared to the previous version altered.**

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