

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.01.2022

Version number 1

Revision: 24.01.2022

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

- **1.1. Product identifier**
- **Version number 1.0**
- **Trade name CroxX solub 7-12-40+TE**
- **Article number: 2300\_560019**
- **1.2. Relevant determined uses of the substance or mixture; and uses advised against:**
- **Use of the substance or mixture** Chemical for different applications
- **Relevant determined uses of the substance/preparation:**  
 Agricultural chemicals  
 Chemical product for serveral applications.
- **1.3. Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 CroxX GmbH & Co. KG  
 Kerstingskamp 7  
 D 48159 Muenster  
 +49 (0) 251/37 97 33 50
- **Informing department:** Product Safety Department
- **1.4. Emergency telephone number:**  
 Emergency Call:  
 Poison Control Center Mainz - 24 hour emergency service - Tel: +49 (0) 6131/19240

### SECTION 2: Hazards identification

- **2.1. Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
 Eye Dam. 1 H318 Causes serious eye damage.
- **2.2. Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
 The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS05

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
 potassium sulphate, containing in the dry state more than 52 per cent by weight of K<sub>2</sub>O
- **Hazard statements**  
 H318 Causes serious eye damage.
- **Precautionary statements**  
 P280 Wear eye protection / face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/doctor.
- **2.3. Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Does not meet the criteria in accordance with Regulation 1907/2006 Annex XIII.

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· **vPvB:** Does not meet the criteria in accordance with Regulation 1907/2006 Annex XIII.

### SECTION 3: Composition/information on ingredients

· **3.2. Chemical characterisation: Mixtures**· **Description:** Mixture consisting of the following components with harmless additives.· **Hazardous-/Components:**

CAS: 7778-80-5 EINECS: 231-915-5 Reg.nr.: 01-2119489441-34	potassium sulphate, containing in the dry state more than 52 per cent by weight of K <sub>2</sub> O ☠ Eye Dam. 1, H318	≥10-≤50%
CAS: 10043-35-3 EINECS: 233-139-2 Index number: 005-007-00-2 Reg.nr.: 01-2119486683-25	Borsäure ☠ Repr. 1B, H360FD	<2.5%

· **SVHC**

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· **Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

· **4.1. Description of first aid measures**· **General information**

Personal protection for the First Aider.

Instantly remove any clothing soiled by the product.

Remove breathing apparatus only after soiled clothing has been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Move out of dangerous area.

If unconscious but breathing recovery position.

Cardiac arrest immediate cardiopulmonary resuscitation (CPR) Initiate.

Never give anything by mouth to an unconscious person or a person with cramps.

· **After inhalation** Supply fresh air; consult doctor in case of symptoms.· **After skin contact**

Wash skin immediately with plenty of water and soap. If skin reactions occur, contact a physician.

· **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

· **After swallowing**

Immediately rinse mouth thoroughly with water, spit out.

Rinse out mouth and then drink plenty of water.

· **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**

No further relevant information available.

### SECTION 5: Firefighting measures

· **5.1. Extinguishing media**· **Suitable extinguishing agents**

Product / material does not burn. Fire extinguishing measures according to environmental conditions.

· **5.2. Special hazards arising from the substance or mixture**

Can be released in case of fire:

Sulfur oxides (SO<sub>x</sub>)

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*Organic decomposition products*

*Fire gases from organic materials are generally classified as respiratory poisons.*

*Nitrogen oxides (NOx)*

**· 5.3. Advice for firefighters**

**· Protective equipment:**

*Standard equipment for firefighters, breathing apparatus for indoor and large outdoor fires.*

*There are only actions that are intended for general fire fighting to make.*

**· Additional information**

*Collect contaminated fire fighting water separately. It must not enter drains.*

*If possible without risk, remove containers from the danger area.*

*Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.*

### SECTION 6: Accidental release measures

**· 6.1. Personal precautions, protective equipment and emergency procedures**

*Wear protective equipment (see section 8).*

*Keep unprotected persons away.*

**· 6.2. Environmental precautions:** *No special measures required.*

**· 6.3. Methods and material for containment and cleaning up:**

*Take up mechanically, placing in appropriate containers for disposal 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** *No special precautions necessary if used correctly.*

**· Information about protection against explosions and fires:** *No special measures required.*

**· 7.2. Conditions for safe storage, including any incompatibilities**

**· Storage**

**· Requirements to be met by storerooms and containers:** *No special requirements.*

**· Information about storage in one common storage facility:** *Not required.*

**· Further information about storage conditions:** *No.*

**· 7.3. Specific end use(s)** *No further relevant information available.*

### SECTION 8: Exposure controls/personal protection

**· 8.1. Control parameters**

**· Additional information about design of technical systems:** *No further data; see item 7.*

**· 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**

**7778-80-5 potassium sulphate, containing in the dry state more than 52 per cent by weight of K<sub>2</sub>O**

Oral	DNEL General population	12.8 mg/kg bw/d (human) (systemisch)
Dermal	DNEL Workers	21.3 mg/kg (human) (systemisch)
	DNEL General population	12.8 mg/kg (human) (systemisch)
Inhalative	DNEL Workers	37.6 mg/m <sup>3</sup> (human) (systemisch)

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	DNEL General population	11,100 µg/m <sup>3</sup> (human) (systemisch)
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Oral	DNEL general population (systemic, long-term)	0.98 mg/kg bw/Tag (human)
	DNEL general population (systemic, short-term)	0.98 mg/kg bw/Tag (human)
Dermal	DNEL Workers (systemic, long-term)	392 mg/kg bw/d (human)
	DNEL general population (systemic, long-term)	196 mg/kg bw/Tag (human)
Inhalative	DNEL Workers (systemic, long-term)	8.3 mg/m <sup>3</sup> (human)
	DNEL general population (systemic, long-term)	4.15 mg/m <sup>3</sup> (human)

· **PNECs****7778-80-5 potassium sulphate, containing in the dry state more than 52 per cent by weight of K<sub>2</sub>O**

PNEC aqua (fresh water)	0.68 mg/l (/)
PNEC aqua (marine water)	0.068 mg/l (/)

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PNEC aqua (fresh water)	2.9 mg/l (/)
PNEC aqua (marine water)	2.9 mg/l (/)
PMEC STP	10 mg/l (/)
PNEC soil	5.7 mg/kg dw (/)
PNEC intermittent release	13.7 mg/l (/)

· **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** Wash hands during breaks and at the end of the work.· **Breathing equipment:** Required when dusts are generated.· **Recommended filter device for short term use:** Particulate filter unit type P according to DIN EN 143· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Wear closed protection glasses.· **Body protection:**

Protective clothing should be selected in their place, depending on concentration and quantity of the hazardous substances. The chemical resistance of protective clothing should be clarified with their suppliers.

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### SECTION 9: Physical and chemical properties

· **9.1. Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· <b>Form:</b>	Solid.
· <b>Colour:</b>	Not determined.
· <b>Smell:</b>	No information available
· <b>Odour threshold:</b>	Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

· <b>Melting point/freezing point:</b>	Not determined
· <b>Initial boiling point and boiling range:</b>	Not determined.

· **Flash point:** Not determined.

· **Inflammability (solid, gaseous)** Not determined.

· **Decomposition temperature:** Not determined.

· **Self-inflammability:** Product is not selfigniting.

· **Explosive properties:** Product is not explosive.

· **Critical values for explosion:**

· <b>Lower:</b>	Not applicable
· <b>Upper:</b>	Not applicable
· <b>Oxidising properties</b>	not classified as oxidizing

· **Steam pressure:** Not applicable.

· <b>Density at 20 °C</b>	2.25 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.

· **Solubility in / Miscibility with**

· **Water:** Insoluble

· **Partition coefficient: n-octanol/water:** Not determined.

· **Viscosity:**

· <b>dynamic:</b>	Not applicable.
· <b>kinematic:</b>	Not applicable.

· **9.2. Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1. Reactivity** No further relevant information available.
- **10.2. Chemical stability** Stable under recommended storage conditions.
- **10.3. Possibility of hazardous reactions** No data available
- **10.4. Conditions to avoid** No further information, sh. Item 7.
- **10.5. Incompatible materials:** No further relevant information available.
- **10.6. Hazardous decomposition products:**  
None known.

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None during intended use.

### 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:**

#### 7778-80-5 potassium sulphate, containing in the dry state more than 52 per cent by weight of K2O

Oral	LD50.	6,600 mg/kg (rat)
Dermal	LD50.	≥2,001 mg/kg (rat)
Inhalative	LC50/4h.	>1,200 mg/l (rat)

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Oral	LD50.	3,450 mg/kg (rat)
Dermal	LD50.	>2,000 mg/kg (rabbit)
Inhalative	LD50	>2.03 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Sensitisation:** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **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.
- **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:**

#### 7778-80-5 potassium sulphate, containing in the dry state more than 52 per cent by weight of K2O

IC50 (72h)	2,900 mg/l (Scenedesmus subspicatus (Grünalge))
EC50 (48h)	720 mg/l (Daphnia magna (großer Wasserfloh))
LC50 (96h)	3,350 mg/l (Lepomis macrochirus (Bl. Sonnenbarsch))
	680 mg/l (Pimephales promelas (Fettkopfbrasse))
NOEC	≥100 mg/l (Algen)

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LC50	24 mg/l (Salmo gairdneri)
LC50 (48h)	133 mg/l (Daphnia magna (großer Wasserfloh))

- **12.2. Persistence and degradability** No further relevant information available.
- **12.3. Bioaccumulative potential** No further relevant information available.
- **12.4. Mobility in soil** No further relevant information available.

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- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
- **12.5. Results of PBT and vPvB assessment**
- **PBT:**  
The substance / product is not as persistent, bioaccumulative (PsB), very bioaccumulative (sPsB), nor as toxic (PBT) is considered.
- **vPvB:**  
The substance / product is not considered to be very persistent (vP) nor very bioaccumulative (vB) (vPvB).
- **12.6. Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

- **13.1. Waste treatment methods**
- **Recommendation** Must be specially treated under adherence to official regulations.
- **Waste disposal key number:**  
The waste code according to the Waste Catalogue Ordinance (AVV) must be determined by the waste producer, it depends on the type of use/ type of waste generation and may be different for a particular product.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

· <b>14.1. UN-Number</b> · <b>ADR, IMDG, IATA</b>	Void
· <b>14.2. UN proper shipping name</b> · <b>ADR, IMDG, IATA</b>	Void
· <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>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>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** None of the ingredients is listed.

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- **National regulations**

None of the substances are present.

None of the substances are present.

REGULATION (EC) No 1005/2009 on substances that deplete the ozone layer

REGULATION (EU) No 649/2012 OF concerning the export and import of hazardous chemicals

- **Water hazard class:** Water hazard class 1 (L): Slightly hazardous to water.

- **Other regulations, limitations and prohibitive regulations**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

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### 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.

- **Relevant phrases**

H318 Causes serious eye damage.

H360FD May damage fertility. May damage the unborn child.

- **Department issuing data specification sheet:** Environment protection department.

- **Abbreviations and acronyms:**

RTECS - Registry of Toxic Effects of Chemical Substances

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

LATA: 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

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

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Repr. 1B: Reproductive toxicity – Category 1B

- **Sources** This information is based on information from suppliers.