

Sicherheitsdatenblatt gemäß 1907/2006/EG, Artikel 31

Printing date 26.01.2023

Version number 1.0

Revision: 26.01.2023

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

- **1.1. Product identifier**
- **Version number 0.1**
- **Trade name CroxX Foliar Si 15**
- **1.2. Relevant determined uses of the substance or mixture; and uses advised against:**
- **Sector of Use SU3 Industrial uses:** Uses of substances as such or in preparations at industrial sites
- **Relevant determined uses of the substance/preparation:** Agricultural chemicals
- **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**
Skin Irrit. 2 H315 Causes skin irritation.
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 statements**
H315 Causes skin irritation.
H318 Causes serious eye damage.
- **Precautionary statements**
P280 *Wear protective gloves / 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.*
P321 *Specific treatment (see on this label).*
P362+P364 *Take off contaminated clothing and wash it before reuse.*
P332+P313 *If skin irritation occurs: Get medical advice/attention.*
- **2.3. Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Does not meet the criteria in accordance with Regulation 1907/2006 Annex XIII.
- **vPvB:** Does not meet the criteria in accordance with Regulation 1907/2006 Annex XIII.

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SECTION 3: Composition/information on ingredients

· 3.2. Mixtures

· **Description:** Mixture consisting of the following components with harmless additives.

· Hazardous-/Components:

CAS: 1312-76-1	Kaliumsilikat	≥10-<20%
EINECS: 215-199-1	⚠ Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318;	
Reg.nr.: 01-2119456888-17	⚠ STOT SE 3, H335	

· **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

No special measures required.

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.

If unconscious but breathing recovery position.

Cardiac arrest immediate cardiopulmonary resuscitation (CPR) Initiate.

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

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

· After inhalation

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness bring patient into stable side position for transport.

· 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.

Make victim drink plenty of water.

In case of persistent symptoms consult doctor.

· 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** Use fire fighting measures that suit the environment.

· **5.2. Special hazards arising from the substance or mixture** This product is not flammable.

· 5.3. Advice for firefighters

· **Protective equipment:** There are only actions that are intended for general fire fighting to make.

· Additional information

Cool endangered containers with water spray jet.

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

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

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

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:**
Do not allow to enter into drains/waters or in the soil.
Local authorities should be advised if significant spillage cannot be contained.
- **6.3. Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Ensure adequate ventilation.
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**
No special measures required.
Keep containers tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Observance of the general rules of preventive operational fire protection.
- **Handling** Containers must be clearly and permanently labelled.
- **7.2. Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** *Keep container tightly closed.*
- **Information about storage in one common storage facility:**
Separated from food, drink and animal feeding stuffs.
- **Further information about storage conditions:** *Protect from frost.*
- **7.3. Specific end use(s)** *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

- **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		
1310-58-3 potassium hydroxide		
Inhalative	DNEL Workers (local, long-term)	1 mg/m ³ (human)
	DNEL general population (local, long-term)	1 mg/m ³ (human)

- **Additional information:** *The lists that were valid during the compilation were used as basis.*

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- **8.2. Exposure controls**
- **Appropriate engineering controls** No further data; see item 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**
 The usual precautionary measures should be adhered to in handling the chemicals.
 Ensure that employees follow simple hygiene rules (e.g. no chewing on fingernails, which should be worn short cut; do not touch or scratch the face with dirty hands or gloves); ensure that employees do not wipe off sweat with hands or arms, use paper handkerchiefs instead of cloth handkerchiefs.
 Keep away from foodstuffs, beverages and food.
 Instantly remove any soiled and impregnated garments.
 Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.
- **Hand protection**
 Protective gloves.
 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**
 Chemical protective gloves made of natural latex (thickness 1 mm, maximum life. 480 min) or chloroprene (layer thickness 0.8 mm, maximum life. 480 min).
 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/face protection**
 Safety glasses
 Tightly sealed safety glasses (DIN EN 166)
- **Body protection:**
 Protective work clothing.
 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.

SECTION 9: Physical and chemical properties

- **9.1. Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Fluid
- **Colour:** Brown
- **Smell:** Characteristic
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Not determined
- **Boiling point or initial boiling point and boiling range** Not determined.
- **Flammability** Not applicable.
- **Lower and upper explosion limit**
- **Lower:** Not applicable
- **Upper:** Not applicable

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· Flash point:	Not determined.
· Ignition temperature:	No self-heating fuel, according to UN Test N.4.
· Decomposition temperature:	Not determined.
· pH at 20 °C	>9,5
· Viscosity:	
· Kinematic viscosity	Not determined.
· dynamic:	Not determined.
· Solubility	
· Water:	Fully miscible
· Partition coefficient n-octanol/water (log value)	Not determined.
· Steam pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C	1,22 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.

· 9.2. Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive.
· Change in condition	
· Setting temperature / range:	
· Oxidising properties	not classified as oxidizing
· Evaporation rate	Not determined.

· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1. Reactivity** The substance is stable under normal conditions of use.
- **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.

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· **10.5. Incompatible materials:**

Can react violently if in contact with water and acids.

Highly reactive with aluminium, tin, zinc and lead producing flammable hydrogen gas.

· **10.6. Hazardous decomposition products:**

None known.

None during intended use.

SECTION 11: Toxicological information

· **11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

· **Acute toxicity** Based on available data, the classification criteria are not met.

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

ATE (Acute Toxicity Estimates)

Oral	LD50.	7.727 mg/kg
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1312-76-1 Kaliumsilikat

Oral	LD50.	>2.000 mg/kg (!)
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Dermal	LD50.	>5.000 mg/kg (!)
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1310-58-3 potassium hydroxide

Oral	LD50.	365 mg/kg (rat)
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Dermal	LD50	mg/kg (human) (H314=ätzend)
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Inhalative	LD50	mg/l (human) (H314=ätzend)
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· **Skin corrosion/irritation** Causes skin irritation.

· **Serious eye damage/irritation** Causes serious eye damage.

· **Sensitisation:** Based on available data, the classification criteria are not met.

· **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.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

· **12.1. Toxicity**

· **Aquatic toxicity:**

1312-76-1 Kaliumsilikat

EC50	>100 mg/l (Algen) (Analogie)
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	>100 mg/l (Bakterien) (Analogie)
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	>100 mg/l (Daphnia magna (großer Wasserfloh)) (entspr. OECD 202)
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LC50	>100 mg/l (fish) (ISO 7346/2(Semistatic))
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1310-58-3 potassium hydroxide

EC50 (48h)	40 mg/l (Aquatische Invertebraten)
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LC50 (96h)	80 mg/l (Gambusia affinis (Koboldkärpfling))
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- **12.2. Persistence and degradability**
The methods for determining the biological degradability are not applicable to inorganic substances.
- **Behaviour in environmental systems:**
The product is an acid/base. A neutralization is usually required prior to discharging a sewage into sewage treatment plants. When biological wastewater treatment plants are adapted to low concentrations, disturbances in the degradation activity of activated sludge are not to be expected.
- **12.3. Bioaccumulative potential** Not relevant for inorganic substances.
- **12.4. Mobility in soil** No further relevant information available.
- **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 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **12.6. Other adverse effects**
- **Additional ecological information:**
- **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
Wassergefährdungsklasse 1 (Self-assessment): schwach wassergefährdend

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

SECTION 14: Transport information

<ul style="list-style-type: none"> · 14.1. UN number or ID number · ADR, IMDG, IATA 	Void
<ul style="list-style-type: none"> · 14.2. UN proper shipping name · ADR, IMDG, IATA 	Void
<ul style="list-style-type: none"> · 14.3. Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class 	Void
<ul style="list-style-type: none"> · 14.4. Packing group · ADR, IMDG, IATA 	Void
<ul style="list-style-type: none"> · 14.5. Environmental hazards: 	Not applicable.

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- | | |
|--|-----------------|
| · 14.6. Special precautions for user | Not applicable. |
| · 14.7. Maritime transport in bulk according to IMO instruments | Not applicable. |
| · UN "Model Regulation": | 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.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **National regulations**

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

None of the substances are present.

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

None of the substances are present.

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

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**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

· **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)

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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
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Met. Corr.1: Corrosive to metals – Category 1
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
· **Sources** This information is based on information from suppliers.

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