

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 18.12.2020

Version number 1

Revision: 18.12.2020

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

- **1.1. Product identifier**
- **Version number 0.1**
- **Trade name CroxX solub Calcipower**
- **1.2. Relevant determined uses of the substance or mixture; and uses advised against:**
 No further relevant information available.
- **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**
 Acute Tox. 4 H302 Harmful if swallowed.
 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



GHS07

- **Signal word** *Danger*
- **Hazard-determining components of labelling:**
 calcium nitrate, containing in the anhydrous state more than 16 per cent by weight of nitrogen
- **Hazard statements**
 H302 Harmful if swallowed.
 H318 Causes serious eye damage.
- **Precautionary statements**
 P280 *Wear eye protection / face protection.*
 P301+P312 *IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.*
 P330 *Rinse mouth.*
 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.*
 P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 18.12.2020

Version number 1

Revision: 18.12.2020

Trade name CroxX solub Calcipower

(Contd. of page 1)

- **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.

SECTION 3: Composition/information on ingredients

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

- **Components:**

CAS: 10124-37-5 EINECS: 233-332-1	calcium nitrate, containing in the anhydrous state more than 16 per cent by weight of nitrogen ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	≥50-≤100%
CAS: 10043-35-3 EINECS: 233-139-2 Index number: 005-007-00-2 Reg.nr.: 01-2119486683-25	Borsäure ⚠ Repr. 1B, H360FD	≥0-<2.5%

- **SVHC**

10043-35-3 Borsäure

- **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**
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.
Personal protection for the First Aider.
Remove breathing apparatus only after soiled clothing has been completely removed.
Instantly remove any clothing soiled by the product.
- **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** Water
- **5.2. Special hazards arising from the substance or mixture**
Can be released in case of fire:
Nitrogen oxides (NOx)

(Contd. on page 3)

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

Printing date 18.12.2020

Version number 1

Revision: 18.12.2020

Trade name CroxX solub Calcipower

(Contd. of page 2)

- **5.3. Advice for firefighters**
- **Protective equipment:**
There are only actions that are intended for general fire fighting to make.
Put on breathing apparatus.
Wear suitable protective clothing.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Cool endangered containers with water spray jet.
Collect contaminated fire fighting water separately. It must not enter drains.
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:** 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** Keep away from heat and direct sunlight.
- **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:**
Protect from heat and direct sunlight.
Store in cool, dry conditions in well sealed containers.
- **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		
10124-37-5 calcium nitrate, containing in the anhydrous state more than 16 per cent by weight of nitrogen		
Oral	DNEL general population (systemic, long-term)	10 mg/kg bw/Tag (human)
10043-35-3 Borsäure		
Oral	DNEL general population (systemic, long-term)	0.98 mg/kg bw/Tag (human)

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 18.12.2020

Version number 1

Revision: 18.12.2020

Trade name CroxX solub Calcipower

(Contd. of page 3)

Dermal	DNEL general population (systemic, short-term)	0.98 mg/kg bw/Tag (human)
	DNEL Workers (systemic, long-term)	392 mg/kg bw/d (human)
Inhalative	DNEL general population (systemic, long-term)	196 mg/kg bw/Tag (human)
	DNEL Workers (systemic, long-term)	8.3 mg/m ³ (human)
	DNEL general population (systemic, long-term)	4.15 mg/m ³ (human)

· PNECs
10124-37-5 calcium nitrate, containing in the anhydrous state more than 16 per cent by weight of nitrogen

PMEC STP	18 mg/l (/)
----------	-------------

10043-35-3 Borsäure

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.

Do not store food in the working area.

After contact with skin, wash immediately with plenty of water.

When using do not eat, drink or smoke.

Instantly remove any soiled and impregnated garments.

Wash contaminated clothing prior to re-use.

· **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.

GB

(Contd. on page 5)

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

Printing date 18.12.2020

Version number 1

Revision: 18.12.2020

Trade name CroxX solub Calcipower

(Contd. of page 4)

SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

· **Form:** Solid.
· **Colour:** Not determined.
greenish

· **Smell:** No information available

· **Odour threshold:** Not determined.

· **pH-value (10 g/l) at 20 °C:** 4.8

· **Change in condition**

· **Melting point/freezing point:** Not determined

· **Initial boiling point and boiling range:** 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:**

· **Lower:** Not applicable

· **Upper:** Not applicable

· **Oxidising properties** not classified as oxidizing

· **Steam pressure:** Not applicable.

· **Density** Not determined

· **Relative density** Not determined.

· **Vapour density** Not applicable.

· **Evaporation rate** Not applicable.

· **Solubility in / Miscibility with**

· **Water:** Soluble

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

· **Viscosity:**

· **dynamic:** Not applicable.

· **kinematic:** 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:** Reducing agent

· **10.6. Hazardous decomposition products:**

None known.

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 18.12.2020

Version number 1

Revision: 18.12.2020

Trade name CroxX solub Calcipower

None during intended use.

(Contd. of page 5)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Harmful if swallowed.

LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50.	357-<2,439 mg/kg (rat)
------	-------	------------------------

10124-37-5 calcium nitrate, containing in the anhydrous state more than 16 per cent by weight of nitrogen

Oral	LD50.	300-<2,000 mg/kg (rat)
------	-------	------------------------

Dermal	LD50.	≥2,001 mg/kg (rat)
--------	-------	--------------------

10043-35-3 Borsäure

Oral	LD50.	3,450 mg/kg (Maus)
------	-------	--------------------

		3,500 mg/kg (rat)
--	--	-------------------

Dermal	LD50.	>2,000 mg/kg (rabbit)
--------	-------	-----------------------

Inhalative	LD50	4 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:

10124-37-5 calcium nitrate, containing in the anhydrous state more than 16 per cent by weight of nitrogen

EC50 (48h)	490 mg/l (Daphnia magna (großer Wasserfloh))
------------	--

EC50 (10d)	>1,700 mg/l /Meerwa (Algen)
------------	-----------------------------

LC50 (96h)	1,378 mg/l (fish)
------------	-------------------

10043-35-3 Borsäure

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.

(Contd. on page 7)

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

Printing date 18.12.2020

Version number 1

Revision: 18.12.2020

Trade name CroxX solub Calcipower

(Contd. of page 6)

- **12.4. Mobility in soil** No further relevant information available.
- **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.
- **European waste catalogue**
 The appropriate code according to the European Waste Catalogue (EWC) should be used.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1. UN-Number · ADR, IMDG, IATA	Void
· 14.2. UN proper shipping name · ADR, IMDG, IATA	Void
· 14.3. Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class	Void
· 14.4. Packing group · ADR, IMDG, IATA	Void
· 14.5. Environmental hazards:	Not applicable.
· 14.6. Special precautions for user	Not applicable.
· 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· UN "Model Regulation":	Void

GB

(Contd. on page 8)

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

Printing date 18.12.2020

Version number 1

Revision: 18.12.2020

Trade name CroxX solub Calcipower

(Contd. of page 7)

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.

· **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.

· **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.

· **Other regulations, limitations and prohibitive regulations**

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

10043-35-3	Borsäure
------------	----------

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**

H302 Harmful if swallowed.

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 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

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

Acute Tox. 4: Acute toxicity - oral – Category 4

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.