



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

Printing date 02.02.2021

Version number 1

Revision: 02.02.2021

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

- **1.1. Product identifier**
- **Version number 1.0**
- **Trade name CroxX gran 12-12-17+2MgO+TE**
- **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:** Chemical product for several 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
Gif tinfor mationszentrum Göttingen
Tel.: 0551/19240

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.
- **2.2. Label elements**
- **Labelling according to Regulation (EC) No 1272/2008 Void**
- **Hazard pictograms Void**
- **Signal word Void**
- **Hazard statements Void**
- **Additional information:**
Safety data sheet available on request.
- **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: 6484-52-2 EINECS: 229-347-8 Reg.nr.: 01-2119490981-27	ammonium nitrate ----- ☠ Ox. Sol. 3, H272; ⚠ Eye Irrit. 2, H319	≥10-≤50%
CAS: 12179-04-3 EINECS: 215-540-4	disodium tetraborate pentahydrate ----- ☠ Repr. 1B, H360FD	<2.5%
· SVHC		
12179-04-3	disodium tetraborate pentahydrate	

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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.
- **After inhalation**
Supply fresh air; consult doctor in case of symptoms.
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** Rinse out mouth and then drink plenty of water. Seek medical treatment.
- **4.2. Most important symptoms and effects, both acute and delayed** Methaemoglobinaemia
- **Danger**
Danger of pneumonia.
Danger of pulmonary oedema.
- **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**
Water
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents**
Carbon dioxide
Sand.
Foam.
- **5.2. Special hazards arising from the substance or mixture**
Formation of poisonous gases during heating or in fires.
Ammonia gas (NH₃)
Nitrogen oxides (NO_x)
- **5.3. Advice for firefighters**
- **Protective equipment:**
Put on breathing apparatus.
Wear full protective suit.
- **Additional information**
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**
Put on breathing apparatus.
Wear protective equipment (see section 8).
Keep unprotected persons away.
- **6.2. Environmental precautions:**
Do not allow to enter drainage system, surface or ground water.
Keep dirty washing water for appropriate disposal.
- **6.3. Methods and material for containment and cleaning up:**
Take up mechanically, placing in appropriate containers for disposal according to regulations.

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- **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 containers tightly sealed.
Keep away from heat and direct sunlight.
Keep container dry and tightly closed.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect from heat and direct sunlight.
Keep breathing equipment ready.
- **7.2. Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
Protect from moisture.
Removed from heat and ignition sources.
- **Information about storage in one common storage facility:** Do not store with oxidizing substances.
- **Further information about storage conditions:**
Protect from contamination
Keep container tightly sealed.
Protect from heat and direct sunlight.
- **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

6484-52-2 ammonium nitrate

Dermal	DNEL Workers (systemic, long-term)	5.12 mg/kg bw/d (human)
Inhalative	DNEL Workers (systemic, long-term)	36 mg/m ³ (human)

· PNECs

6484-52-2 ammonium nitrate

PNEC aqua (fresh water)	0.45 mg/l (/)
PNEC aqua (marine water)	0.045 mg/l (/)
PMEC STP	18 mg/l (/)
PNEC intermittent release	4.5 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**
Keep away from foodstuffs, beverages and food.

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Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Breathing equipment:** *Breathing protection recommended when aerosol and/or fog formation.*

· **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:**

Safety glasses

Tightly sealed safety glasses (DIN EN 166)

· **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.

SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form:	<i>Solid.</i>
Colour:	<i>Various colours</i>
Smell:	<i>Odourless</i>
Odour threshold:	<i>Not determined.</i>

· **pH-value:** *Not applicable.*

· **Change in condition**

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

· **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:	<i>Not applicable</i>
Upper:	<i>Not applicable</i>

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· Oxidising properties	Non-oxidizing (granular form) UN test 0.1: test for oxidizing solids
· 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.
· Solids content:	100.0 %
· 9.2. Other information	No further relevant information available.

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.
Substance decomposes on heating (see decomposition temperature).
- **10.3. Possibility of hazardous reactions** Reacts with alkalis releasing ammonia
- **10.4. Conditions to avoid**
strong heating
Ignition sources, open flames, hot surfaces
- **10.5. Incompatible materials:**
Chlorite
chlorate
Oxidizing materials
Organic substances.
Nitrites.
chlorinated hydrocarbons
Hypochlorite
Metals in powder form.
- **10.6. Hazardous decomposition products:**
Nitrogen oxides (NOx)
Ammonia.

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:**

Oral	LD50	>2,001 mg/kg (rat) (OECD 401)
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6484-52-2 ammonium nitrate

Oral	LD50.	2,462 mg/kg (rat)
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Dermal	LD50.	>5,000 mg/kg (rat)
Inhalative	LC50/4h.	>88.8 mg/l (rat)
12179-04-3 disodium tetraborate pentahydrate		
Oral	LD50	3,200-3,400 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

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

- **Subacute to chronic toxicity:**

6484-52-2 ammonium nitrate

Oral	NOAEL	>1,500 mg/kg /28d (rat)
Inhalative	NOAEL	≥185 mg/kg bw/d /2w (rat)

- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** No relevant information available.
- **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**

6484-52-2 ammonium nitrate

Oral	NOAEL	256 mg/kg /52w (rat) (OECD 453)
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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:**

6484-52-2 ammonium nitrate

EC50 (48h)	490 mg/l (Daphnia magna (großer Wasserfloh))
EC50 (10d)	1,700 mg/l (Algen)
LC50 (48h)	447 mg/l (fish)

12179-04-3 disodium tetraborate pentahydrate

EC10 (72h)	mg/l (rat)
	24 mg/l /96h (Scenedesmus subspicatus)
EC50 (24h)	242 mg/l (Daphnia magna (großer Wasserfloh))
LC50	>2 mg/l (rat) (OECD 403)
LC50 (96h)	74 mg/l (Limanda limanda)

- **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.

- **Additional ecological information:**

- **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

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· **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.

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

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

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: 58

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· 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

- 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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12179-04-3 disodium tetraborate pentahydrate
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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**

- H272 May intensify fire; oxidiser.

- H319 Causes serious eye irritation.

- 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

- Ox. Sol. 3: Oxidizing solids – Category 3

- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

- Repr. 1B: Reproductive toxicity – Category 1B