Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830

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

1.1. **product identifiers**

Article No. (manufacturer/supplier)	P12111
Identification of the substance or mixture	WUXAL Aminocal
Product code:	

1.2. **Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses
Fertilizer

1.3. **Details of the supplier of the safety data sheet**

supplier (manufacturer/importer/downstream user/distributor)

AGLUKON Spezialdünger GmbH & Co. KG
Heerdter Landstraße 199
40549 Düsseldorf
Germany

Telephone: +49 (0) 211 5064 0
Telefax: +49 (0) 211 5064 247

Dept. responsible for information:

E-mail (competent person): reach@aglukon.com

1.4. **Emergency telephone number**

GIZ Mainz, POISON CENTER
Germany
Information in English and German

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 [CLP]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.

2.2. **Label elements**

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms

Warning

Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection/face protection.
P337 + P313	If eye irritation persists: Get medical advice/attention.

contains:

not applicable

Supplemental Hazard information (EU)

not applicable

2.3. **Other hazards**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition / information on ingredients

3.2. **Mixtures**

Product description / chemical characterization

Description

Hazardous ingredients

Classification according to Regulation (EC) No 1272/2008 [CLP]

EC No. CAS No. INDEX No.	REACH No. Chemical name classification // Remark	Wt %
233-140-8 10043-52-4 017-013-00-2	01-2119494219-28-XXXX calcium chloride dihydrate Eye Irrit. 2 H319	30 < 45
231-869-6 64333-01-3	 manganese(II) chloride monohydrate Acute Tox. 3 H301 / Aquatic Chronic 2 H411	1 < 2
231-592-0 7646-85-7 030-003-00-2	01-2119472431-44-XXXX zinc chloride Acute Tox. 4 H302 / Skin Corr. 1B H314 / Aquatic Acute 1 H400 / STOT SE 3 H335 / Aquatic Chronic 1 H410	1 < 2

Additional information
Full text of classification: see section 16

SECTION 4: First aid measures

4.1. **Description of first aid measures**

General information

In all cases of doubt, or when symptoms persist, seek medical advice.

In case of inhalation
Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

Following skin contact
Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap.

After eye contact
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion
Rinse mouth thoroughly with water. Seek medical advice immediately. Keep victim calm.

4.2. **Most important symptoms and effects, both acute and delayed**
No known symptoms to date.

4.3. **Indication of any immediate medical attention and special treatment needed**
Treat symptomatically.

SECTION 5: Firefighting measures

5.1. **Extinguishing media**

The product itself does not burn.

Suitable extinguishing media:
Water spray jet, Water mist, carbon dioxide, Powder

Extinguishing media which must not be used for safety reasons:
strong water jet

5.2. **Special hazards arising from the substance or mixture**
Hazardous combustion products: Hydrogen chloride (HCl)

5.3. **Advice for firefighters**
In case of fire: Wear self-contained breathing apparatus. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1. **Personal precautions, protective equipment and emergency procedures**
Provide adequate ventilation. Personal protection equipment: refer to section 8.

6.2. **Environmental precautions**
Do not allow to enter into surface water or drains.

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

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

6.4. **Reference to other sections**

Observe protective provisions (see chapter 7 and 8).

SECTION 7: Handling and storage

7.1. **Precautions for safe handling**

Advices on safe handling

Avoid contact with skin, eyes and clothes. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Follow the legal protection and safety regulations.

Precautions against fire and explosion:

No special measures are necessary.

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

Requirements for storage rooms and vessels

Protect from heat and direct sunlight. Keep container tightly closed. Always keep in containers that correspond to the material of the original container.

Hints on joint storage

Do not store together with: Food and feedingstuffs.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 0 °C and 40 °C. Store carefully closed containers upright to prevent any leaks.

7.3. **Specific end use(s)**

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Occupational exposure limit values

not applicable

8.2. **Exposure controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment. See section 7. No additional measures necessary.

Occupational exposure controls

Respiratory protection

Usually no personal respirative protection necessary.

Hand protection

For prolonged or repeated handling the following glove material must be used: e.g. NBR (Nitrile rubber).
Thickness of the glove material: No data available. Breakthrough time (maximum wearing time): No data available.
Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles: DIN EN 374.
Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection

Wear eye glasses with side protection according to EN 166.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

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

Appearance:

Physical state:	**liquid**
Colour:	**light brown**
Odour:	**characteristic**
Odour threshold:	**not applicable**
pH at 20 °C:	**4**
Melting point/freezing point:	**not applicable**
Initial boiling point and boiling range:	**not determined**
Flash point:	**not applicable**
Evaporation rate:	**not applicable**
Flammability (solid, gas):	
burning time (s):	**not applicable**
Upper/lower flammability or explosive limits:	
Lower explosion limit:	**not applicable**
Upper explosion limit:	**not applicable**
Vapour pressure at 20 °C:	**not applicable**
Vapour density:	**not applicable**
Relative density:	
Density at 20 °C:	**1,35 g/cm³**
Solubility(ies):	
Water solubility (g/L) at 20 °C:	**very soluble**
Partition coefficient: n-octanol/water:	**see section 12**
Auto-ignition temperature:	**not applicable**
Decomposition temperature:	**not applicable**
Viscosity at 20 °C:	**not determined**
Explosive properties:	**not applicable**
Oxidising properties:	**not applicable**

9.2. **Other information**

No information available.

SECTION 10: Stability and reactivity

10.1. **Reactivity**

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

10.2. **Chemical stability**

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

10.3. **Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

10.4. **Conditions to avoid**

Protect from heat and direct sunlight.

10.5. **Incompatible materials**

Alkali (lye)

10.6. **Hazardous decomposition products**

Does not decompose when used for intended uses. Hazardous decomposition byproducts may form with exposure to high temperatures: Hydrogen chloride (HCl)

SECTION 11: Toxicological information

Classification according to Regulation (EC) No 1272/2008 [CLP]
No data on preparation itself available.

11.1. **Information on toxicological effects**

Acute toxicity

WUXAL Aminocal

oral, LD50, Rat: > 2000 mg/kg
Calculation method.

manganese(II) chloride monohydrate
oral, LD50, Rat: 250 mg/kg ; evaluation Toxic if swallowed.

zinc chloride
oral, LD50, Rat: 1100 mg/kg ; evaluation Harmful if swallowed.
Method: OECD 401

skin corrosion/irritation; Serious eye damage/eye irritation

WUXAL Aminocal
eyes: evaluation Causes serious eye irritation.
Calculation method.
Skin: evaluation Causes skin irritation.
Calculation method.

calcium chloride dihydrate
eyes: evaluation Causes serious eye irritation.

zinc chloride
Skin: evaluation Causes severe skin burns and eye damage.

Respiratory or skin sensitisation

Toxicological data are not available.

Specific target organ toxicity

zinc chloride
Specific target organ toxicity (single exposure), Irritation: evaluation May cause respiratory irritation.

Aspiration hazard

Toxicological data are not available.

Practical experience/human evidence

No information available.

Overall Assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Remark

There is no information available on the preparation itself .

SECTION 12: Ecological information

overall evaluation
Classification according to Regulation (EC) No 1272/2008 [CLP]
There is no information available on the preparation itself .

12.1. **Toxicity**

zinc chloride
Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 0,169 mg/l (96 h)
Daphnia toxicity, EC50: 0,147 - 0,000 mg/l (48 h)

Long-term Ecotoxicity

WUXAL Aminocal
Ecotoxicity: evaluation Harmful to aquatic life with long lasting effects.
Calculation method.

12.2. **Persistence and degradability**
No data available.

12.3. **Bioaccumulative potential**
No data available.

Bioconcentration factor (BCF)

No data available.

12.4. **Mobility in soil**
No data available.

12.5. **Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. **Other adverse effects**

No information available.

SECTION 13: Disposal considerations

13.1. **Waste treatment methods**

Appropriate disposal / Product
Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

020108 agrochemical waste containing dangerous substances

packaging
Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

No dangerous good in sense of this transport regulation.

14.1. **UN number**

not applicable

14.2. **UN proper shipping name**

14.3. **Transport hazard class(es)**

not applicable

14.4. **Packing group**

not applicable

14.5. **Environmental hazards**

Land transport (ADR/RID)	not applicable
Marine pollutant	not applicable

14.6. **Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8

Further information

Land transport (ADR/RID)

tunnel restriction code	-

Sea transport (IMDG)

EmS-No.	not applicable

Air transport (ICAO-TI / IATA-DGR)

14.7. **Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

SECTION 15: Regulatory information

15.1. **Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU legislation

Directive 2010/75/EU on industrial emissions

VOC-value (in g/L): 0,000

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

15.2. **Chemical Safety Assessment**

Chemical safety assessments for substances in this preparation were not carried out.

SECTION 16: Other information

Full text of classification in section 3:

Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Acute Tox. 3 / H301	Acute toxicity (oral)	Toxic if swallowed.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Skin Corr. 1B / H314	skin corrosion/irritation	Causes severe skin burns and eye damage.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
STOT SE 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.

Further information

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations.Without written approval, the product must not be used for purposes different from those mentioned in chapter 1.It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations.The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.