

Article No.: 12182729 WUXAL Calcium 480010 AU
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifiers

Article No. (manufacturer/supplier) 12182729
Identification of the substance or mixture WUXAL Calcium
Product code: P21827

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)

AgNova Technologies
Suite 3/935 Station Street
Box Hill North Vic 3129
Australia
(03) 9899 8100
www.agnova.com.au

1.4. Emergency telephone number

1800 033 111 (24 hrs)
Poison Information Centre 13 11 26

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.

2.2. Label elements

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

Hazard pictograms



Danger

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.
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.

contains:

nitric acid, ammonium calcium salt

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

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Hazardous ingredients

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

EC No. CAS No. INDEX No.	REACH No. Chemical name classification	Wt % Remark
229-347-8 6484-52-2	01-2119490981-27-XXXX ammonium nitrate Ox. Sol. 3 H272 / Eye Irrit. 2 H319	1 < 2
233-139-2 10043-35-3 005-007-00-2	01-2119486683-25-XXXX boric acid Repr. 1B H360FD	0,1 < 0,5
239-289-5 15245-12-2	01-2119493947-16-XXXX nitric acid, ammonium calcium salt Acute Tox. 4 H302 / Eye Dam. 1 H318	45 < 60

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

Remove contaminated, saturated clothing immediately. 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: nitrogen oxides, Ammonia

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. Treat runoff as hazardous.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Personal protection equipment: refer to chapter 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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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 chapter 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 chapter 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 5 °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:

INDEX No. Not applicable. / CAS No.

DNEL:

ammonium nitrate

EC No. 229-347-8 / CAS No. 6484-52-2

DNEL long-term dermal (systemic), Workers: 21,3 mg/kg

DNEL long-term inhalative (systemic), Workers: 37,6 mg/m³

boric acid

INDEX No. 005-007-00-2 / EC No. 233-139-2 / CAS No. 10043-35-3

DNEL long-term dermal (systemic), Workers: 392 mg/kg bw/day

DNEL long-term inhalative (systemic), Workers: 8,28 mg/m³

DNEL short-term oral (acute), Consumer: 0,98 mg/kg bw/day

DNEL long-term oral (repeated), Consumer: 0,98 mg/kg

DNEL long-term dermal (systemic), Consumer: 196 mg/kg bw/day

DNEL long-term inhalative (systemic), Consumer: 4,15 mg/m³

nitric acid, ammonium calcium salt

EC No. 239-289-5 / CAS No. 15245-12-2

DNEL long-term dermal (systemic), Workers: 13,9 mg/kg bw/day

DNEL long-term inhalative (systemic), Workers: 24,5 mg/m³

PNEC:

ammonium nitrate

EC No. 229-347-8 / CAS No. 6484-52-2

PNEC aquatic, freshwater: 0,45 mg/L

PNEC aquatic, marine water: 0,045 mg/L

PNEC aquatic, intermittent release: 4,5 mg/L

PNEC sewage treatment plant (STP): 18 mg/L

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boric acid
INDEX No. 005-007-00-2 / EC No. 233-139-2 / CAS No. 10043-35-3
PNEC aquatic, freshwater: 2,02 mg B/L
PNEC aquatic, marine water: 2,02 mg B/L
PNEC, Soil: 5,4 mg B/kg
PNEC sewage treatment plant (STP): 10 mg B/L

nitric acid, ammonium calcium salt
EC No. 239-289-5 / CAS No. 15245-12-2
PNEC aquatic, freshwater: 0,45 mg/L
PNEC aquatic, marine water: 0,045 mg/L
PNEC aquatic, intermittent release: 4,5 mg/L

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 respiratory 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 dark green
Odour characteristic

Safety relevant basis data	Unit	Method	Remark
Flash point (°C):	Not applicable. °C		
Ignition temperature in °C:	n.a.		
Lower explosion limit:	Not applicable. Vol-%		
Upper explosion limit:	Not applicable. Vol-%		
Vapour pressure at 20 °C:	Not applicable. mbar		
Density at 20 °C:	1,64 g/cm ³		
Water solubility (g/L):	very soluble		
pH at 20 °C:	5,00		
Viscosity at 20 °C:	not determined		
Boiling temperature / boiling range:	not determined °C		

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

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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: nitrogen oxides, Ammonia

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 Calcium

oral, LD50, Rat: 879 mg/kg ; evaluation Harmful if swallowed.

Method: ATEmix calculated:

Calculation method.

nitric acid, ammonium calcium salt

oral, LD50, Rat: > 300 mg/kg ; evaluation Harmful if swallowed.

Method: OECD 423

skin corrosion/irritation; Serious eye damage/eye irritation

WUXAL Calcium

Eyes: evaluation Causes serious eye damage.

Calculation method.

ammonium nitrate

Eyes, Rabbit.: evaluation Causes serious eye irritation.

Method: OECD 405

nitric acid, ammonium calcium salt

Eyes, Rabbit. (24 h): evaluation Causes serious eye damage..

Method: OECD 405

Respiratory or skin sensitisation

Toxicological data are not available.

Specific target organ toxicity

Toxicological data are not available.

Aspiration hazard

Toxicological data are not available.

Practical experience/human evidence

No information available.

Overall Assessment on CMR properties

EC No.	Chemical name	Classification according to EC regulation 1272/2008 (CLP):
CAS No.		
233-139-2	boric acid	Repr. 1B
10043-35-3		

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]

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There is no information available on the preparation itself .

12.1. Toxicity

No data available.

Long-term Ecotoxicity

No data available.

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

Additional information

Land transport (ADR/RID)

tunnel restriction code

-

Sea transport (IMDG)

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EmS-No. Not applicable.

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

REACH

SVHC/candidate list: boric acid List of substances of very high concern (SVHC) from which the substances to be included in Annex XIV of the REACH Regulation (list of substances subject to authorisation) are selected. The candidate list is established in accordance with Article 59 of the REACH Regulation.

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).

Other regulations, restrictions and prohibition regulations

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:

Ox. Sol. 3 / H272	Oxidising solids	May intensify fire; oxidiser.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Repr. 1B / H360FD	Reproductive toxicity	May damage fertility. May damage the unborn child.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.

Additional 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.