

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

1.1. Product identifier

Trade name: ACTIFLOW Ca-Mg
Trade code: 653132
UFI: 6800-E0D3-300U-TM0E

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

Recommended use:
Agriculture microelements corrector.

1.3. Details of the supplier of the safety data sheet

Supplier: QUIMOPROX, S.L.
Street: Pol. Ind. Can Magre – C/ Carles Buhigas, nave 80
Postal code/city: 08187 Sta. Eulalia de Ronçana - Barcelona
Country: SPAIN
Telephone: (34).93.844.66.94
E-mail (competent person): quimoprox@quimoprox.com


1.4. Emergency telephone number


In case of emergency +34 91 114 25 20
Posion Center +34 91 562 04 20

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) N° 1272/2008 [CLP]:

 Harmful if swallowed.

 Peligro, Eye Dam. 1, Causes serious eye damage.

2.2. Label elements

Labelling according to Regulation (EC) N° 1272/2008 [CLP]:

Hazard symbols:



Danger

Hazard statements:

H302 Harmful if swallowed.

H318 Causes serious eye damage.

Precautionary statements::

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash hands thoroughly with soap and water after handling.

P270 Do not eat, drink or smoke when using this product.

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 CENTRE or doctor/physician.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions: None

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2.3. Other hazards

vPvB Substances: None - PBT Substances: None

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description: Formulation of Ca and Mg inorganic salts.

Hazardous ingredients:

Classification according to Directive 67/548/EEC / Classification according to Regulation (EC) No. 1272/2008 [CLP]

Quantity	Substance name	Identification numbers	Classification
> 50 - < 60 %	Calcium ammonium nitrate	CAS: 15245-12-2 EC: 239-289-5 REACH No.: 01-2119493947-16-0012	H 302, H318

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Remove contaminated, saturated clothing immediately.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation:

No special measures are necessary.

Following skin contact:

Wash immediately with: Water.

In case of skin irritation, consult a physician.

Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion:

Rinse mouth immediately and drink plenty of water.

Do not induce vomiting.

Seek immediate medical advice.

4.2. Most important symptoms and effects, both acute and delayed

Skin burns.

Eye burns.

Burns of the mouth, throat, stomach.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray jet.

Dry extinguishing powder.

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- Foam.
- Carbon dioxide (CO₂).
- Unsuitable extinguishing media:
 - Strong water jet.
- 5.2. Special hazards arising from the substance or mixture
 - Hazardous combustion products:
 - Carbon dioxide (CO₂).
 - Carbon monoxide (CO).
 - Nitrogen oxides (NO_x).
 - Hydrogen chloride (HCl).
- 5.3. Advice for firefighters
 - Special protective equipment for firefighters:
 - Wear a self-contained breathing apparatus and chemical protective clothing.
 - Additional information:
 - Collect contaminated fire extinguishing water separately. Do not allow to enter drains or surface water.

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
 - For non-emergency personnel:
 - Personal protection equipment: see section 8.
 - For emergency responders:
 - Personal protection equipment: see section 8.
- 6.2. Environmental precautions
 - Cover drains.
 - Do not allow to enter into soil/subsoil.
 - Do not allow to enter into surface water or drains.
 - Retain contaminated washing water and dispose it.
 - Ensure waste is collected and contained.
 - In case of entry into waterways, soil or drains, inform the responsible authorities.
- 6.3. Methods and material for containment and cleaning up
 - For containment:
 - Cover drains.
 - For cleaning up:
 - Absorb with liquid binding material (e.g. sand, diatomaceous earth or universal binding agents).
 - Collect in closed and suitable containers for disposal.
 - Wash with plenty of water.
- 6.4. Reference to other sections
 - Safe handling: see section 7.
 - Disposal: see section 13.

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
 - Protective measures:
 - Avoid:
 - Skin contact.
 - Eye contact.
 - Personal protection equipment: see section 8.
 - Fire prevention measures:
 - No special fire protection measures are necessary.
 - Advices on general occupational hygiene:
 - When using do not eat, drink, smoke, sniff.
 - Wash hands before breaks and after work.

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Used working clothes should not be worn outside the work area.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Requirements for storage rooms and vessels:

Suitable container/equipment material:

Varnished iron.
Stainless steel.
Polyethylene (PE).
Glass.

Unsuitable container/equipment material:

Glass.
Iron.
Aluminium.
Enamel.

Suitable floor material:

The floor should be leak tight, jointless and not absorbent.
Alkali-resistant.

Fire prevention measures:

No special fire protection measures are necessary.

Hints on joint storage:

Do not store together with: Oxidizing agents.

Further information on storage conditions:

Recommended storage temperature: At room temperature.

7.3. Specific end use(s)

Identified use: see section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

No data available.

PNEC-values

No data available.

DNEL-values

No data available.

8.2. Exposure controls

Appropriate engineering controls:

See chapter 7. No additional measures necessary.

Personal protective equipment:

Eye/face protection:

Goggles (DIN 166).

Skin protection:

Hand protection:

Chemical resistant protective gloves (DIN EN 374).

The product

Suitable material: Butyl caoutchouc (butyl rubber) By long-term hand contact

Suitable material: NBR (nitrile rubber) By long-term hand contact

Suitable material: PVC (polyvinyl chloride) By long-term hand contact

Suitable material: NR (natural rubber, natural latex) By short-term hand contact

Body protection:

Wearing of fully sealed work clothing is recommended.

Chemical protection clothing.

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Chemical resistant safety shoes.

Respiratory protection:

Usually no respiratory personal protective equipment is required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Flow.			
Colour:	Greenish.			
Odour:	Slight odor.			
Odour threshold:	No data available.			
pH value	ca. 5,3	at °C:	20	(NFT 01-013)
Melting point / melting range	<0 °C			
Boiling temperature / boiling range	ca.100 °C			
Flash point	Not applicable			
Vapourisation rate / Evaporation rate	No data available.			
Flammable solids:	Not Relevant			
Upper/lower flammability or explosive limits:	No data available.			
Relative vapour density at 20 °C (air=1)				No data available.
Density	1,49			
Solubility:				
Water solubility:	Miscible.			
Partition coefficient n-octanol/water (log P O/W)				No data available.
Self ignition temperature	>200 °C			
Decomposition temperature	>150 °C			
Dynamic viscosity:	2000mPa*s	/20 °C		(NFT 51210)
Explosive properties	No			
Oxidizing power	No			

9.2. Other information

Liquid density in kg/l	1,49/20 °C	(NFT 20050)
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SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability

The product is stable if stored as prescribed/indicated.

10.3. Possibility of hazardous reactions

No hazardous reaction when stored and handled according to instruction.

10.4. Conditions to avoid

Decomposition takes place from temperatures above: 150 °C

See section 7.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents.

10.6. Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Except particular informations, the toxicological effects of product are assessed by the conventional method described in Annex II of Directive 1999/45/EC which take in consideration all health hazards of substances contained in the product.

The product

Acute oral toxicity Rat > 300 < 2000 mg/kg - Source: Literature information -
Assessment: Harmful if swallowed.

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Skin corrosion / Irritation - Source: Literature information - Assessment: Not an irritant.
Eye damage / irritation - Source: Literature information - Assessment: Causes serious eye damage.

Calcium ammonium nitrate.

Acute oral toxicity - Test: LD50 Rat ca >300 - < 2000 mg/kg – OECD 423- Assessment: Harmful if swallowed.

Skin corrosion / Irritation - DL50 Rata > 2000 mg/kg - Method: Estimation - Assessment: No clasified.

Eye damage / irritation - Method: Estimation - Assessment: Causes serious eye damage

SECTION 12: Ecological information

Except particular informations, the ecotoxicological effects of product are assessed by the conventionnal method described in Annex III of Directive 1999/45/EC.

12.1. Toxicity

The product

Acute (short-term) fish toxicity - Endpoint: LC50 > 100 mg/L - Duration h: 96 h - Method: Estimation - Assessment: No clasified.

Acute (short-term) daphnia toxicity - Endpoint: CE50 > 100 mg/L - Duration h: 48 h - Method: Estimation - Assessment: No clasified.

Calcium ammonium nitrate

Aquatic toxicity EC50 >100 mg/l (Daphnia magna) (48h OECD 202)

EC50 >100 mg/l (Pseudokirchneriella subcapitata) (72h OECD 201)

12.2. Persistence and degradability

The product

Biodegradation – No data available

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

Known or predicted distribution to environmental compartments:

No data available.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

The product does not contain organically bound halogen.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product

Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Appropriate disposal / Package

Contaminated packages must be completely emptied and can be re-used following proper cleaning.

Packaging which cannot be cleaned should be disposed of as the product contents.

SECTION 14: Transport information

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

No data available.

14.3. Transport hazard class(es)

No data available.

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

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- 14.4. Packing group
No data available.
- 14.5. Environmental hazards
IMDG-Marine pollutant: No
- 14.6. Special precautions for user
No data available.
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Environmental Pollutant:
No

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Volatile organic compounds (VOC) content in percent by weight: 0 %(calculated)
Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles - Annex XVII to Regulation (EC) No 1907/2006: No.
- Water hazard class (WGK): Slightly hazardous to water (WGK 1).
- 15.2. Chemical safety assessment
No

SECTION 16: Other information

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.