

Trade Name: SOLBION Ca 16+2.9+16.5+16 CaO  
Date: 2023-02-01

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Revised:

## 1. Identification of the substance/preparation and the company/undertaking

### 1.1. Product identifier:

SOLBION Ca 16+2.9+16.5+16 CaO

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

**Recommended use:** Water-soluble fertilizer for horticulture and agriculture

**Uses advised against:** No information available

### 1.2. Details of the supplier of the safety data sheet

Planta-Düngemittel GmbH

Schwanenstraße 22

D – 93128 Regenstauf

Tel.: ++ 49(0)9402/8125

[info@plantafert.com](mailto:info@plantafert.com)

### 1.3. Emergency telephone number

**Poison Emergency Call Munich** ++49(0)89-19240

## 2. Hazards Identification

### 2.1. Classification of the substance or mixture

#### 2.2. Label elements

Labeling in accordance with regulation 1272/2008 (CLP)

**Hazard pictograms:**



**Signal word: Warning**

**Hazard statements:**

H 272 May intensify fire; oxidizer.

H 319 Causes serious eye irritation.

**Precautionary statements:**

P 210 Keep away from open flames. No smoking.

P 220 Keep away from combustible materials.

P 221 Take any precaution to avoid mixing with combustibles.

P 280 Wear protective gloves/protective clothing/eye protection/face protection.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P 370 + 378 In case of fire: Use water to extinguish.

P 501 Dispose of contents/container according to local/national regulations.

### 2.3. Other hazards which do not result in classification

In case of fire: Nitrogen oxide and ammonia may develop.

## 3. Composition/Information on Ingredients

### 3.1. Substances

This product is a preparation/mixture

### 3.2. Preparations

Mixture of ammonium, calcium and potassium salts, phosphate, nitrate and trace elements.

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CAS-Nr.	REACH-Reg.-Nr.	Name	EINECS No.	Concentr. (%)	Classification (CLP)
6484-52-2	01-2119490981-27-0015	Ammonium nitrate	229-347-8	5 – 10	H 272, H 319
7757-79-1	01-2119488224-35-0029	Potassium nitrate	231-818-8	30 - 35	H 272
15245-12-2	01-2119495093-35-0017	Calcium Nitrate	239-289-5	45 – 50	H 318, H 302
14887-42-4	01-2119510125-56-0000	Potassium-pentahydrogen-bis-phosphate	238-961-5	3 – 5	H 319
10043-35-3	01-2119486683-25-0028	Boric acid	233-139-2	0 – 0.2	H 360 FD
14025-15-1	05-2117241977-31-0000	Copper chelate EDTA	237-864-5	0 – 0.4	H 302, H 319

(For H-statements in full: See section 16)

#### 4. First Aid Measures

##### 4.1. **Description of first aid measures**

###### **Inhalation**

Move person into fresh air; in case of respiratory problems: seek medical help.

###### **Skin contact**

Remove contaminated clothing; wash with soap and water.

###### **Eye contact**

Rinse immediately with plenty of water; remove contact lenses. In case of problems seek medical help.

###### **After ingestion**

Rinse mouth with water; give water to drink; if necessary, seek medical help.

###### **Additional information**

Respiration of decomposition fumes: Seek medical help and show this information!

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

Pulmonary oedema possible after respiration of decomposition fumes

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

After respiration of decomposition fumes: Medical surveillance

#### 5. Fire-fighting Measures

##### 5.1. **Extinguishing media**

**Suitable:** For surrounding fires: Water

**Unsuitable:** Do not use dry chemicals or foams.

##### 5.2. **Special hazards arising from the substance or mixture**

Danger of thermic decomposition: do not inhale decomposition fumes

##### 5.3. **Advice for fire fighters**

Wear self-contained breathing apparatus and protective suit.

##### 5.4. **Special instructions**

Avoid allowing the firefighting water into the ground water

#### 6. Accidental Release Measures

##### 6.1. **Personal precautions, protective equipment and emergency procedures**

**Personal precautions:** Avoid dust formation; see sections 7 and 8.

**For emergency responders:** Use personal protection (see section 8)

##### 6.2. **Environmental precautions**

Do not allow the product to get into the ground water or sewage system.

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

**Methods for containment:** Prevent further leakage or spillage if safe to do so.

After spilling: Sweep up or vacuum up material and dispose of (see section 13) or reuse material.

##### 6.4. **Reference to other sections:**

See section 7, 8 and 13.

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## **7. Handling and Storage**

### **7.1. Precautions for safe handling**

**Advice on safe handling:** Avoid contact with eyes and skin; avoid dust generation.

**General hygiene considerations:**

- Don't eat, drink or smoke in working areas
- Wash hands after handling
- Remove contaminated clothing

**Advice for fire protection**

The product itself is incombustible. In case of surrounding fire: Nitrogen oxide and ammonia may develop.

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

Keep dry at room temperature in closed packages; avoid contact with heat sources and oxidizing substances

Do not store with combustible substances, acids or bases.

Keep away from heat and direct sunlight.

### **7.3. Specific end uses**

Fertilizer for horticulture

## **8. Exposure Control/Personal Protection**

### **8.1. Exposure limits**

No data available.

### **8.2. Personal Protection**

- Respiratory protection: Dust mask with filter type P1
- Hand protection: possibly protective gloves (rubber)
- Eye protection: wear safety glasses to avoid eye contact.

**Environmental exposure control**

See section 6 and 7.

## **9. Physical and Chemical Properties**

### **9.1. General information**

**Appearance:** powder

**Color:** light brown

**Odour:** odourless

**Explosive properties:** product is not explosive

**Boiling point:** not applicable

**Vapor pressure:** not applicable

**Flash point:** not applicable

**Melting point:** not applicable (mixture)

**Water solubility:** max. ca. 350 g/l

**pH-value (2 g/l) at 20°C:** ca. 3.5

**Viscosity:** not applicable

**Vapor density:** not applicable

### **9.2. Other Information**

No further physical and chemical data determined

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## 10. Stability and Reactivity

### 10.1. **Reactivity**

Hygroscopic

### 10.2. **Chemical stability**

Stable under normal conditions

### 10.3. **Possible dangerous reactions**

No dangerous reaction if used as intended

### 10.4. **Conditions to avoid**

Humidity; high temperatures

### 10.5. **Materials to avoid**

Combustible material, strong acids and bases, reducing material, chlorates, chlorites, hypochlorite, nitrites, chlorate containing herbicides

### 10.6. **Dangerous decomposition products**

In case of burning: Nitrogen oxides, ammonia.

## 11. Toxicological Information

### 11.1. **Information on toxicological effects**

**Acute toxicity:** no data available

**Irritation:** Weakly irritating

**Sensitizing:** Not sensitizing.

**Chronic toxicity:** no data available

**Carcinogenicity:** no data available

**Mutagenicity:** no data available

**Reproductive effects:** no data available

## 12. Ecological Information

### 12.1. **Toxicity**

Low hazardous to waters (self-classified)

### 12.2. **Persistence and degradability**

Biodegradable

### 12.3. **Bioaccumulation potential**

No Bioaccumulation potential

### 12.4. **Mobility in soil**

Product is water-soluble and shouldn't get into the ground water

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

No data available

### 12.6. **Other harmful effects**

No data available

## 13. Disposal Considerations

### 13.1. **Waste treatment methods**

**Product:** Safest to dispose of product by using it as intended, possibly in agriculture; otherwise: hazardous waste site. European Waste Catalogue and Hazardous Waste List: 02 01 09 "Agrochemical waste other than those mentioned in 02 01 08".

**Packages:** Emptied packages: Recycling or residual waste.

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**14. Transport Information****14.1. UN number**

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**14.2. UN Proper shipping name**

-

**14.3. Class**

-

**14.4. Packing group**

-

**14.5. Ecological menace**

Not harmful to the environment

**14.6. Caution information for the user**

See sections 6 – 8

**15. Regulatory Information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****European Union**

Regulation (EC) No 2003/2003 of the European Parliament and of the Council of 13 October 2003 relating to fertilizers

EC-Regulation 1272/2008 (CLP).

Boric acid is listed as a candidate on the list of substances of very high concern (SVHC)

**National regulations**

Germany:

Water Endangering Class (WGK): 1 (self-classification)

**15.2. Chemical Safety Assessment**

Mixture was not subject of a safety assessment.

**16. Other Information****Revision information**

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**Information source**

Regulation (EC) Nr. 1907/2006 (REACH)

Regulation (EC) Nr. 1272, 2008 (CLP/GHS)

**Links**<http://www.baua.de><http://www.gischem.de><http://reach.bdi.info>**H-statements in full from section 3**

H 272	May intensify fire; oxidizer.
H 360 FD	May impair fertility or cause harm to the unborn child
H 302	Harmful if swallowed
H 318	Causes serious eye damage
H 319	Causes serious eye irritation

**Disclaimer**

This information bases on our practical experience and know-how. It corresponds to the best of our knowledge, but it excludes any obligation on our part. As we have no influence on stock-keeping and application, we only guarantee for the perfect quality of our products at the moment of delivery.