

Trade Name: SOLBION Ca 12+2.9+31+3+3
Date: 2023-02-01

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

1.1. Product identifier:

SOLBION Ca 12+2.9+31+3+3

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

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, magnesium and potassium salts, sulphate, phosphate, nitrate and trace elements.

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| CAS-Nr. | REACH-Reg.-Nr. | Name | EINECS No. | Concentr. (%) | Classification (CLP) |
|------------|-----------------------|---------------------------------------|------------|---------------|----------------------|
| 7757-79-1 | 01-2119488224-35-0029 | Potassium nitrate | 231-818-8 | 60 - 65 | H 272 |
| 15245-12-2 | 01-2119495093-35-0017 | Calcium Nitrate | 239-289-5 | 5 – 9,4 | 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

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14.3. Class

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14.4. Packing group

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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.