

(CE) – SAFETY DATA SHEET



Prev. Date : July 2010
Revision Date : January 2017

Product : **RAPS STARTER**

- | | |
|--|--|
| <input type="checkbox"/> Raw material | <input type="checkbox"/> Solvent |
| <input type="checkbox"/> Intermediate | <input type="checkbox"/> Catalyser |
| <input checked="" type="checkbox"/> Fertilizer | <input type="checkbox"/> Reactive analysis |

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1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

1.1 Identification of the substance

- 1.1.1 Chemical name : Stable mixture of Boric Acid, Copper sulphate, Sodium Molybdate, Manganese sulphate, Zinc sulphate, Magnesium Sulphate and Urea
- 1.1.2 Commercial name and synonymies: Powder mineral fertilizer
- 1.1.3 Chemical Abstract list :

1.2 Identification of the Company

- 1.2.1 Company name : Swissgrow Tarım Gıda Ambalaj San Tic Ltd Şti
Tel: 0090 242 - 258 18 30 Fax. 0090 242 – 258 18 34
- 1.2.2 SDS Issuer info@swissgrow.com
- 1.2.3 Emergency phone number: Contact the nearest hospital unit.

2. HAZARDS IDENTIFICATION

The product is not classified as hazardous by EC Directive on prepared hazardous substances. The product may be harmful if swallowed or inhaled May cause eye/skin irritation. Wash thoroughly after handling.

3. COMPOSITION/INFORMATION ON THE COMPONENTS

Boric acid /H ₃ BO ₃	CAS n° : 10043-35-3	Molecular weight : 61,83
Copper Sulphate /CuSO ₄ .H ₂ O	CAS n°: 10257-54-2	Molecular weight : 177,62
Sodium Molybdate / MoNa ₂ O ₄	CAS n° : 10102-40-6	Molecular weight : 241, 95
Manganese sulphate /MnSO ₄	CAS n°: 10034-96-5	Molecular weight : 150,996
Zinc Sulphate /ZnSO ₄ .H ₂ O	CAS n° : 7446-19-7	Molecular weight : 179,45
Magnesium sulphate / MgSO ₄	CAS n° : 7487-88-9	Molecular weight : 120,37
Urea / NH ₂ CONH ₂	CAS n° : 57-13-6	Molecular weight : 60,06

4. FIRST AID MEASURES

- 4.1 Ingestion : Do not induce vomiting without medical advice. Give plenty of water or milk to drink and call a doctor. Never give anything by mouth to an unconscious person.
- 4.2 Inhalation : Move person to fresh air. If casualty is not breathing call an ambulance, then give mouth-to-mouth artificial respiration.
- 4.3 Skin contact : Take off contaminated clothing. Rinse skin immediately with plenty of water. Call a doctor.
- 4.4 Eyes contact : If in eyes, hold eye open and rinse slowly and gently with water for 15 minutes. Remove contact lenses. Seek for medical advice

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5. FIRE-FIGHTING MEASURES

- | | | |
|-----|---|---|
| 5.1 | Suitable extinguishing media : | Water spray, carbon dioxide, dry chemical, chemical foam |
| 5.2 | Extinguishing media not to be used: | // |
| 5.3 | Dangerous combustible products : | Thermal decomposition can lead to release of irritating gases and vapour. |
| 5.4 | Protective equipment for fire-fighting operations : | In the event of fire, wear self-contained breathing apparatus. |

6. ACCIDENTAL RELEASE MEASURES

- | | | |
|-----|---------------------------------------|---|
| 6.1 | Methods for cleaning up / collection: | Vacuum or sweep up the product and place in a disposal container. If the product is uncontaminated, collect and reuse. If material is contaminated, put in appropriate container and dispose. Flush with water. |
| 6.2 | Individual precautions : | Avoid contact with skin, eyes and clothing, wear rubber gloves and protective goggles. |
| 6.3 | Other indications : | Avoid contamination with water courses and water-bearing layer. Avoid to raise dust. |

7. HANDLING AND STORAGE

- | | | |
|-----|------------|--|
| 7.1 | Handling : | Apply good agricultural and industrial handling practice. Handle the product with care and always wear protective eye goggles. Wear suitable protective clothing. Use the product as a fertilizer only. Avoid dust dispersion. |
| 7.2 | Storage : | Keep only in the original container. Keep out of the reach of children. Keep the container dry. Keep away from comburent materials. Keep away from heat. Keep away from food and animal feedstuff. |

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8. EXPOSURE CONTROLS / INDIVIDUAL PROTECTION

- | | | |
|-----|-------------------------------|--|
| 8.1 | General information : | Keep dispersion to a minimum. Do not smoke, eat or drink during use. Avoid dust formation. |
| 8.2 | Hygiene measures : | Apply standard hygiene practice and normal work procedures. |
| 8.3 | Respiratory protection : | In case of dust use a suitable protective mask. |
| 8.4 | Hand protection : | During handling wear rubber or plastic gloves |
| 8.5 | Skin protection : | Wear normal working clothing for minimum skin exposure. |
| 8.6 | Eye protection : | Wear protective goggles during use. |
| 8.7 | Exposure parameters : | Not noted for the product |
| | 8.7.1 TVL/TWA (ACGIH, USA): | |
| | 8.7.2 TVL/STEEL (ACGIH, USA): | |

9. PHYSICAL AND CHEMICAL PROPERTIES

- | | | |
|------------|--|---------------------------|
| 9.1 | Appearance | |
| 9.1.1 | Physical aspect : | powder |
| 9.1.2 | Colour : | Yellowish |
| 9.1.3 | Odour : | Not relevant |
| 9.2 | Relevant safety data | |
| 9.2.1 | Water solubility : | water soluble |
| 9.2.2 | Solubility in principle organic solvents : | // |
| 9.2.3 | Density : | 1,0 – 1,3 kg/lit (powder) |
| 9.2.4 | Specific air vapour weight : | // |
| 9.2.5 | Melting point/range : | 130 – 170 °C |
| 9.2.6 | Boiling point/ range : | // |
| 9.2.7 | Flash point : | Not flammable |
| 9.2.8 | Inf. or sup. Inflammable limit in the air (% in vol) : | // |
| 9.2.9 | Auto ignition temperature : | // |
| 9.2.10 | Vapour pressure (mm Hg) : | // |
| 9.2.11 | pH value : | //(powder) |
| 9.2.12 | Vapour density : | // |

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10. STABILITY AND REACTIVITY

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|------|------------------------------------|--|
| 10.1 | Conditions to avoid : | Extreme heat. Contact with alkalis, oxidizers and reducing agents. Contact with fuels and other organic or combustible materials such as aluminum, magnesium and chlorine compounds. The product is stable in normal condition of use. |
| 10.2 | Materials to avoid : | Strong acids, bases, oxidizers and reducing agents. Avoid contact with other chemicals. Fuels, heavy metals salts. |
| 10.3 | Hazardous decomposition products : | Combustion may produce irritating gases and vapours. Toxic metal oxides may be produced. |

11. TOXICOLOGICAL INFORMATION

Penetration routes :

- | | | | |
|--------|-------------------------------------|---|---------------------------------|
| 11.1.1 | Ingestion : medium | 11.1.2 Inhalation : low | 11.1.3 Contact : minimum |
| 11.2 | Acute toxicity : | Not noticed. Relative to components, ingestion value limits (rat, oral) LD50 : 3750 mg/Kg (referred to Potassium Nitrate) | |
| 11.3 | Chronic toxicity : | Not defined | |
| 11.4 | Corrosiveness/irritability effect : | Slightly irritating. | |
| | 11.4.1 Skin : | Irritating to skin especially if skin is already injured. | |
| | 11.4.2 Eyes : | Slightly irritant to eyes. | |

12. ECOLOGICAL INFORMATION

Do not dispose in the environment. (see section no. 6.1).
If the product spills into free flowing water or into drain systems, alert local environmental authorities in the country of use.
Use the product in accordance to the normal agricultural guidelines. Do not exceed the recommended application dosages.

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13. DISPOSAL INFORMATION

If empty, do not reuse container. Do not place product down any indoor or outdoor drains. Contaminated product should be disposed of in an approved disposal facility. Follow local waste regulations and laws in the Country of use.

14. TRANSPORT INFORMATION – NOT CLASSIFIED

14.1 Road and Railroad transport

RID/ADR	Class :	ONU n°:
CI/FS	Category :	ONU n° :
Packing Group :		

14.2 By Sea

Packing group :	ONU n° :
IMDG code :	

14.3 By Air

ICAO/IATA :	Class :	ONU n°:
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15. REGULATORY INFORMATION

- | | | | | |
|--------|--|-----------|---|------------------------|
| 15.1 | Labels in compliance with EC regulations | 1) By law | 2) Provisional | 3) Not required |
| 15.2 | Hazard symbols : | 15.2.1 | | |
| | | 15.2.2 | | |
| 15.3 | Phrase R: | 15.3.1 | | |
| | | 15.3.2 | | |
| | | 15.3.3 | | |
| 15.4 | Phrase S : | 15.4.1 | S2 Keep out of the reach of children | |
| | | 15.4.2 | | |
| 15.5 | Legislative references | | | |
| 15.5.1 | Health control laws : | | | |

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16. OTHER INFORMATION

- 16.1 Note :
- 16.2 Technical contact centre:
- 16.3 Data Sheet information :
Swissgrow Tarım Gıda Ambalaj San Tic Ltd Şti
Antalya - Turkey
- 16.4 Created :
July 2010
- 16.5 Revision :
January 2017
- 16.6 Printed :
July 2010
- 16.7 Pages :
6
- 16.8 Emergency number :
If necessary contact your anti venomous centre

The product information in this “*safety data sheet – substances*” is to the Company’s knowledge and experience correct at the date of publication, it is not exhaustive. The information relates only to the specific material designated in compliance with the specifications. In case of combination or mixing, be sure that no other danger may occur.

The product information in this SDS does not exempt the user from complying with laws and regulations concerning the product in the Country of use, nor is he/she exempt from complying with hygiene and work safety regulation standards.