

(CE) – SAFETY DATA SHEET



Prev. Date : May 2011
Revision Date : January 2017

Product : **Getreidestarter**

Raw material

Solvent

Intermediate

Catalyser

Fertilizer

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 : Stabilized solution of Manganese Chloride, Manganese Sulphate, Manganese Chloride, Zinc Chloride, Copper Chloride
- 1.1.2 Commercial name and synonymies: ----
- 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
Antalya - Turkey
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 anti venomous centre.

2. HAZARDS IDENTIFICATION

The product has a low toxicity level. Ingestion of small quantities does not harm. Larger quantities may cause gastrointestinal disturbances.

3. COMPOSITION/INFORMATION ON THE COMPONENTS

Water / H ₂ O	CAS n° : 7732-18-5	Molecular weight : 18.02
Manganese Sulphate MnSO ₄ x H ₂ O	CAS n° : 15244-36-7	Molecular weight : 151.00
Manganese Chloride MnCl ₂ x H ₂ O	CAS n° : 13446-34-9	Molecular weight : 197.91
Copper Chloride CuCl ₂ x H ₂ O	CAS n° : 7758-99-8	Molecular weight : 249.69
Zinc Chloride ZnCl ₂ x H ₂ O	CAS n° : 7646-85-7	Molecular weight : 136.30

4. FIRST AID MEASURES

- 4.1 Ingestion : Drink plenty of water or milk. Do not induce vomiting. Consult a doctor.
- 4.2 Inhalation : No treatment is necessary as there is no risk of inhalation.
- 4.3 Skin contact : Rinse effected skin with water. On healthy skin the product is not significantly irritant.
- 4.4 Eyes contact : Rinse immediately with plenty of water and using an eye bath for at least 15 minutes. Consult a doctor.

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5. FIRE-FIGHTING MEASURES

- | | | |
|-----|---|--|
| 5.1 | Suitable extinguishing media : | Water |
| 5.2 | Extinguishing media not to be used: | If possible do not spray directly on the product in order to avoid contamination |
| 5.3 | Dangerous combustible products : | Fumes and irritant vapours |
| 5.4 | Protective equipment for fire-fighting operations : | Normal fire-fighting equipment. Respiratory mask. |

6. ACCIDENTAL RELEASE MEASURES

- | | | |
|-----|---------------------------------------|---|
| 6.1 | Methods for cleaning up / collection: | In case of accidental leakage, clean up as much of the product as possible for re-use or disposal. Do not release into the environment but clean up the remains with suitable absorbing materials and dispose of in accordance with local laws in the country of use. |
| 6.2 | Individual precautions : | Wear individual protective clothing. |
| 6.3 | Other indications : | Avoid contamination of water courses and/or sewage systems. |

7. HANDLING AND STORAGE

- | | | |
|-----|------------|--|
| 7.1 | Handling : | Handle in well ventilated places wearing, if necessary, suitable protective clothing. To be use as fertilizer only.
Do not eat, drink or smoke while handling and/or using the product. |
| 7.2 | Storage : | Store the product in its original packing. Store in a dry place. Keep away from strong reducing agents and/or oxidants. Keep away from food and animal feeds. Keep out of the reach of children. |

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8. EXPOSURE CONTROLS / INDIVIDUAL PROTECTION

8.1	General information :	Keep dispersion to a minimum
8.2	Hygiene measures :	Do not eat, drink or smoke during use. Apply normal precautions for agricultural use when using the product.
8.3	Respiratory protection :	Wear a protective mask in case of spray application.
8.4	Hand protection :	Wear rubber gloves while handling
8.5	Skin protection :	Standard working clothing.
8.6	Eye protection :	Fully protective goggles in case of spray application.
8.7	Exposure parameters :	
	8.7.1 TVL/TWA (ACGIH, USA):	N.D.
	8.7.2 TVL/STEEL (ACGIH, USA):	N.D.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1	Appearance	
9.1.1	Physical aspect :	Liquid
9.1.2	Colour :	green
9.1.3	Odour :	No odour
9.2	Relevant safety data	
9.2.1	Water solubility :	Totally water soluble
9.2.2	Solubility in principle organic solvents :	n.d.
9.2.3	Density :	1,35 gr/lit at 20°C
9.2.4	Specific air vapour weight :	//
9.2.5	Melting point/range :	//
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 :	0,8 – 1,2
9.2.12	Vapour density :	//

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10. STABILITY AND REACTIVITY

- 10.1 Conditions to avoid : Stable at normal conditions. Avoid too high or low temperatures.
10.2 Materials to avoid : None in particular. Strong reducing and oxidizing agents
10.3 Hazardous decomposition products : Irritant fumes

11. TOXICOLOGICAL INFORMATION

Penetration routes :

11.1.1 Ingestion : **X**

11.1.2 Inhalation : **no**

11.1.3 Contact : **X**

11.2 Acute toxicity :

None

11.3 Chronic toxicity :

No cases noted for the product

11.4 Corrosiveness/irritability effect :

11.4.1 Skin :

No effect on healthy skin, slightly irritant on injured skin

11.4.2 Eyes :

Irritating action with direct contact

12. ECOLOGICAL INFORMATION

Do not release to the environment. See section 6.1. If the product flows into water courses or drain systems, notify the local competent environmental authorities.

Use the product in accordance with normal agricultural use. Do not exceed the recommended dosage.

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13. DISPOSAL INFORMATION

Disposal should be in compliance with local laws in act in the country of use. Carefully empty the packing and do not release into the environment. Special waste (eventually assimilable in urban waste) to be disposed in authorized waste unit.

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 :

IMDG code :

ONU n° :

14.3 By Air

ICAO/IATA :

Packing group :

Class :

ONU n°:

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 : May 2011
- 16.5 Revision : January 2017
- 16.6 Printed : June 2011
- 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.