

Orchid Growth (10-3-3 + 1 MgO + TE)

SDS completed: 02/12/2014

Version: 01 Revision: N/A

Supersedes SDS Dated: N/A

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

1.1 Product Identifier:

Orchid Growth (10-3-3 + 1 MgO + TE)

1.2 Relevant uses of the substance or mixture and uses advised against:

Supplied for use as a fertiliser

1.3 Details of the supplier of the safety data sheet:

Chempak Products
Thompson & Morgan
Poplar Lane
Ipswich
Suffolk
IP8 3BU

Contact: The Safety Officer

Telephone Number: 01473 588688 (Monday – Friday 8am to 5pm)

Or visit www.chempak.com

1.4 Emergency telephone number:

Emergency Telephone Number: 01473 588688 (Monday – Friday 8am to 5pm)

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2. Hazards identification

2.1 Classification of the substance or mixture

CLASSIFICATION according to Regulation (EC) 1272/2008 Classification, Labelling and Packaging

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

CLASSIFICATION according to Directive 1999/45/EC and statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulation

Not a hazardous substance or mixture according to Directive 1999/45/EC.

2.2 Label Elements

No labelling elements according to Regulation (EC) No. 1272/2008.

2.3 Other Hazards







According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

Mixture not classified as PBT or vPvB.

3. Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No./ EINECS-No.	Annex Index or REACH number	Symbol(s)	Phrase(s)	Concentration [%]
Potassium nitrate	7757-79-1/ 231-818-8	-	According to 1272/2008: GHS03  According to 67/548/EEC:  O; OXIDISING	According to 1272/2008: Oxid. Solid 3; H272 According to 67/548/EEC: R8	5 - 10
Citric acid	77-92-9/ 201-069-1	REACH number: 01- 2119457026- 42	According to 1272/2008: GHS07  According to 67/548/EEC:  Xi - IRRITANT	According to 1272/2008: Eye Irrit. 2, H319 According to 67/548/EEC: R36	<2.0
Disodium octaborate tetrahydrate	12280-03-4/ 234-541-0	REACH no. 01- 2119490860- 33	According to 1272/2008: GHS08  According to 67/548/EEC:  T; TOXIC	According to 1272/2008: Repr. 1B H360FD According to 67/548/EEC: Reproductive Category 2; R60-61	<0.2

All hazard information if not displayed in section 2 or 3 is displayed in Section 16.

4. First aid measures

4.1 Description of first aid measures

4.1.1 Inhalation

Keep patient calm, remove to fresh air and seek medical attention. If unconscious place in recovery position and seek medical advice.

4.1.2 Skin & Eye exposure

Skin: Wash off with soap and water

Eyes: Rinse thoroughly with plenty of water for at least 15 minutes. Seek medical attention if symptoms persist or develop.

4.1.3 Ingestion

Wash out mouth with water and give water to drink. Do not induce vomiting. Seek medical attention if symptoms persist or develop.

4.2 Most important symptoms and effects, both acute and delayed

No information specified.

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

Treat symptomatically.

5. Firefighting measures

5.1 Extinguishing media

Water; Water spray; Foam; Carbon Dioxide (CO₂); Dry powder.

5.2 Special Hazards arising from the substance or mixture

No information specified.

5.3 Advice for fire-fighters

In the event of fire, wear self-contained breathing apparatus and protective suit.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation.

Ensure adequate ventilation.

In case of insufficient ventilation, wear suitable respiratory equipment.

6.2 Environmental precautions

Do not empty into drains.

Retain and dispose of contaminated wash water.

6.3 Methods and material for containment and cleaning up

Clean up promptly by sweeping or vacuum. Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

6.4 Reference to other sections

For personal protection see section 8.

7. Handling and storage

7.1 Precaution for safe handling

Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry place in original container.

7.3 Specific end use(s)

Always read the label and product information before use.

8. Exposure controls and personal protection

8.1 Control Parameters

No workplace exposure limits specified in EH40/2005

8.2 Exposure controls

Engineering controls:

Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dusts.

Personal protective equipment:

Dust safety masks recommended where working powder concentration is more than 10mg/m³.

Gloves are recommended. Safety glasses with side-shields. Do not wear contact lenses where this product is used. Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance; liquid

Colour; Brown

Odour; Information not available

Odour threshold; Information not available

pH; 3.0 – 4.0

Melting point/freezing; Not applicable

Initial boiling point and boiling range; Not applicable

Flash point; Not applicable

Evaporation rate; Not applicable

Flammability (solid, gas); The product is not flammable

Upper /lower flammability or explosive limits; Not applicable

Vapour Pressure; Not applicable

Vapour density; Not applicable

Specific gravity; 1.17

Solubility (ies); Soluble

Partition coefficient: n-octanol/water; Not applicable

Auto ignition temperature: Not applicable

Decomposition temperature: Information not available

9.2 Other Information

No information specified

10. Stability and reactivity

10.1 Reactivity

Information not available.

10.2 Chemical Stability

Stable under normal conditions of use.

10.3 Possibility of hazardous reactions

Hazard polymerisation does not occur.

10.4 Conditions to avoid

Avoid dust generation.

10.5 Incompatible materials

Organic materials.

10.6 Hazardous decomposition products

Thermal decomposition may produce: nitrogen oxides (NO_x), carbon oxides (CO_x), Hydrogen cyanide (hydrocyanic acid).

11. Toxicological information

11.1 Information on toxicological effects

The mixture has not been assessed for toxicological effects, the mixture classification is given in section 2 based on individual component contents. Individual component hazards if any are given in section 3.

Toxicological information on hazardous ingredients:

Potassium Nitrate

Rat oral LD50 [mg/kg] : > 3000
Rat inhalation LC50 [mg/l/4h] : No data available.
Other toxicological information : May cause eye irritation.

Ingestion of large quantities may cause effects on the blood system resulting in the formation of methaemoglobin. The effects may be delayed. Seek medical advice.

Citric acid

Acute toxicity

LD/LC50 Oral 3000mg/Kg (rat)

Primary irritant effect:

On the skin: No irritant effect
On the eye: Irritating effect
Sensitisation: No sensitising effects known

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

Routes of exposure: The substance can be absorbed into the body by inhalation (of solution mist and dust) and by ingestion.

Disodium octaborate tetrahydrate

TOXIC DOSE 1 - LD 50 3450 mg/kg (oral-mouse)

TOXIC DOSE 2 - LD 50 2660 mg/kg (oral rat)

TOXICOLOGICAL INFORMATION

This material is toxic.

INHALATION

Dust may irritate throat and respiratory system and cause coughing.

INGESTION

Irritating. May cause nausea, stomach pain and vomiting.

SKIN CONTACT

May cause skin irritation/eczema.

EYE CONTACT

Irritating and may cause redness and pain.

HEALTH WARNINGS

INGESTION. May cause stomach pain or vomiting.

INHALATION. May cause irritation to the respiratory system.

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SKIN CONTACT. May cause skin irritation/eczema. May cause sensitisation by skin contact.

EYE CONTACT. Irritating to eyes.

12. Ecological information

12.1 Toxicity

Mixture is not classified as hazardous to the environment.

12.2 Persistence and degradability

Information not available

12.3 Bioaccumulative potential

Information not available

12.4 Mobility in soil

Information not available

12.5 Results of PBT and vPvB

Not classified

12.6 Other adverse effects

Information not specified.

13. Disposal considerations

13.1 Waste Treatment Methods

Dispose of contents/container in accordance with local and national regulations.

14. Transport information

14.1 UN number: Non-dangerous goods

14.2 UN proper shipping name: No information available

14.3 Transport hazard: No information available

14.4 Packing group: -

14.5 Environmental hazards: Not a marine pollutant

14.6 Special precautions for user: No Information available

14.8 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: No information available

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture. This substance/mixture is classified and labelled in accordance with Regulation EC 1272/2008, Directive 1999/45/EC, the statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulations and the EC Fertiliser Regulations 2003, Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2 Chemical Safety Assessment
CSA not undertaken for this product

16. Other information

Full text of R-phrases referred to under sections 2 and 3

- R 8 Contact with combustible material may cause fire.
- R36 Irritating to eyes
- R60 May impair fertility
- R61 May cause harm to the unborn child

Full text of H-Statements referred to under sections 2 and 3.

- H272 May intensify fire; oxidiser.
- H319 Causes serious eye irritation.
- H360 May damage fertility or the unborn child

SDS information:

This Safety data sheet is compiled using data submitted for raw materials and practical experience. This Safety Data Sheet is prepared in compliance with Directive 1999/45/EC, Regulation 1272/2008 and Annex I of the REACH Regulation 453/2010. The information given herein is, to the best of our knowledge, correct and is presented in good faith but no warranty, expressed or implied is given.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty of quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.