

GROWTH TECHNOLOGY LTD

SAFETY DATA SHEET

According to 1907/2006/EC, article 31 (REACH)

CLONEX

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

| | |
|-------------------------|---|
| PRODUCT NAME | Clonex Rooting Hormone Gel (Purple) |
| MAP PRODUCT NUMBER (UK) | 10676 |
| SYNONYMS, TRADE NAMES | Clonex |
| SUPPLIER | Growth Technology Ltd. Unit 66, Taunton Trading Estate Taunton TA2 6RX United Kingdom Phone +44 1823 325291 Fax +44 1823 325487 info@growthtechnology.com |
| EMERGENCY TELEPHONE | +44 1823 325291 (office hours only) |

2 HAZARDS IDENTIFICATION

Clonex improves the root formation in plants and is used for the propagation of plant cuttings. It contains indole butyric acid as the active ingredient, 2-hydroxyethylcellulose as viscosifier and crystal violet dye as colourant; these components are dissolved in water.

Indole butyric acid is a plant growth regulator.
2-Hydroxyethylcellulose is a viscosifier.
Crystal Violet Dye is a colourant.

CLASSIFICATION

Indole butyric acid is classified as an Agricultural Chemical and Pesticide. Mutagenic.
Crystal Violet Dye is classified as harmful, carcinogenic, irritant and dangerous to the environment.

3 COMPOSITION/INFORMATION ON INGREDIENTS

| Name | EC-No | CAS-No | Content | Classification |
|-------------------------|-----------|-----------|---------|----------------|
| 2-hydroxyethylcellulose | | 9004-62-0 | 1.2% | |
| indole butyric acid | 205-101-5 | 133-32-4 | 0.3% | R25 |
| crystal violet dye | 208-953-6 | 548-62-9 | 0.0012% | |
| water | | | >98% | |

The Full Text for all R-Phrases are Displayed in Section 16

COMPOSITION COMMENTS

The Data shown are in accordance with the latest EC Directives

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DISCLAIMER

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4 FIRST-AID MEASURES

INGESTION

If the person affected is conscious, have them drink large quantities of water, after which vomiting should be induced by a properly qualified person. Never give anything by mouth to an unconscious person. Seek immediate medical assistance.

SKIN CONTACT

Remove contaminated clothing and wash skin with soap and plenty of running water. Seek medical assistance.

EYE CONTACT

Rinse immediately eye with plenty of low pressure water for at least 15 minutes. Remove any contact lenses. Seek medical assistance.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

The product is non combustible. To extinguish fire use water spray, dry chemical, carbon dioxide, or chemical foam.

SPECIAL FIRE FIGHTING PROCEDURES

None.

UNUSUAL FIRE & EXPLOSION HAZARDS

None.

SPECIFIC HAZARDS

None.

PROTECTIVE MEASURES IN FIRE

Wear full protective clothing and MSHA/NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

See section 8.

ENVIRONMENTAL PRECAUTIONS

Take precautionary measures against discharges into the environment.

SPILL CLEAN UP METHODS

Sweep up or absorb spilled material, then place into a suitable closed container for disposal as chemical waste. Flush spill area with water. Product is slippery.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid contact with eyes, skin or clothing. Wash thoroughly after handling and before eating, drinking or smoking.

STORAGE PRECAUTIONS

To protect product quality, store in sealed container out of direct sunlight.

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8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT

Protective gloves, safety goggles and protective clothing.

RESPIRATORY EQUIPMENT

Not applicable

HAND PROTECTION

Protective gloves should be used if there is the risk of direct contact or splash.

EYE PROTECTION

Wear approved safety goggles.

HYGIENE MEASURES

Wash at the end of each work shift and before eating, drinking, smoking or using the toilet.

SKIN PROTECTION

Wear apron or protective clothing in case of danger of contact.

9 PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------|--|
| APPEARANCE | aqueous viscous solution with a slight odour |
| COLOUR | purple |
| BOILING POINT | about 100 degrees Celcius |
| SPECIFIC GRAVITY | approximately 1 |
| pH – VALUE | 7.0 – 8.0 |

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

MATERIALS TO AVOID

None

HAZARDOUS DECOMPOSITION PRODUCTS

None

11 TOXICOLOGICAL INFORMATION

GENERAL

The toxicological properties of indole butyric acid have not been fully investigated.

TOXIC DOSE 1 – LD50 (ORAL, RAT)

| | |
|---------------------------------|------------|
| Indole butyric acid (undiluted) | >500 mg/kg |
| Crystal violet dye | 420 mg/kg |

REVISION DATE: 19/02/2008

INGESTION

Indole butyric acid: toxic if swallowed. May cause irritation of the digestive track.

Crystal violet dye: harmful if swallowed.

2-hydroxyethyl cellulose: may cause mild irritation of the digestive track if swallowed in large amounts.

SKIN CONTACT

May cause irritation.

EYE CONTACT

May cause irritation.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Crystal Violet Dye is very toxic to aquatic organisms and may cause long term effects in the aquatic environment. It is however only present in this Product in a very low concentration.

WATER HAZARD CLASSIFICATION

none

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Place into a suitable closed container for disposal as chemical waste.

DISPOSAL METHODS

Dispose of in accordance with local and national regulations.

14 TRANSPORT INFORMATION

GENERAL

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID)

PACKAGING

50ml, 250ml, 1L, 5L, 25L.

15 REGULATORY INFORMATION

LABELLING none

CONTAINS indole butyric acid, crystal violet dye

RISK PHRASES R25 Toxic if swallowed

SAFETY PHRASES S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36/37 Wear suitable protective clothing and gloves
S45 In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging) Regulations. The Control of Substances Hazardous to Health Regulations 1988. Health and Safety at Work Act 1974.

ENVIRONMENTAL LISTING

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Control of Pollution Act 1974.

EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EC. Dangerous Preparations Directive 1999/45/EC.

STATUTORY INSTRUMENTS

Notification of New Substances Regulations (NONS) 1993. The Export and Import of Dangerous Chemicals Regulations 2005 number 928.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply (EU 2001/59/EC). Safety Data Sheets for Substances and Preparations (REACH)

GUIDANCE NOTES

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

Workplace Exposure Limits 2005 (EH40).

The Carriage of Dangerous Goods and use of transportable pressure equipment regulations 2004.

Control of Substances hazardous to health regulations 2002 (as amended).

16 OTHER INFORMATION

ISSUED BY HS&E Manager

REVISION DATE: 19/02/2008

RISK PHRASES IN FULL

R25 Toxic if swallowed

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