

SAFETY DATA SHEET

Clonex – MAPP number 17352

This Safety Data Sheet contains information concerning the potential risks to those involved in handling, transporting and working with the material, as well as describing potential risks to the consumer and the environment. This information must be made available to those who may come into contact with the material or are responsible for the use of the material. This Safety Data Sheet is prepared in accordance with formatting described in the Regulation (EU) No 2015/830, and described in CLP Regulation (EC) No 1272/2008.

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

1.1 Product identifier

Chemical Name: Clonex
CAS Number: Not applicable (Product is a mixture)
REACH Registration No.: Not applicable
Synonyms: Not applicable

1.2 Relevant identified uses of the substances or mixture and uses advised against

Clonex improves the root formation in plants and is used for the propagation of plant cuttings.

1.3 Details of the supplier of the safety data sheet

Growth Technology Ltd.
Great Western Way
Taunton TA2 6BX
United Kingdom
Phone +44 (0)845 430 3001
+44 (0)1823 325291
Fax +44 (0)1823 325487
info@growthtechnology.com

1.4 Emergency telephone number

In case of emergency:
Emergency telephone number: +44 (0)845 430 3001
+44 (0)1823 325 291

Hours of operation: Office hours only.

Section 2. Hazards Identification

MIXTURE:

2.1 Classification of the mixture

Classification under Regulation EC No. 1272/2008 (CLP)

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. However, the SDS is provided for safe handling and use.

Physicochemical hazards:

No potential physicochemical hazards are applicable for this mixture due to the nature of the components and no physicochemical classifications associated with them.

Human health:

Although the mixture does not meet the criteria for hazard classification the mixture is considered to be a mild eye irritant and a mild skin irritant. Personal protective equipment as described in section 7 is advised.

Environment:

No potential environmental hazards are applicable for this mixture due to the nature of the components and no ecotoxicological classifications associated with them.

2.2 Label elements**Regulation (EC) No 1272/2008 (CLP):**

No label elements (classification, hazard statements or precautionary statements) are required as the mixture is not classified in accordance with Regulation EC No. 1272/2008.

Hazard Statements

None required

Precautionary statements:

None required

Supplementary Hazard Information (EUH-Statements):

EUH 208: Contains 1,2-benzisothiazolin-3-one (EC 220-120-9). May cause an allergic reaction.

2.3 Other hazards

PBT / vPvB:	Not applicable
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Section 3. Composition/Information on ingredients.

Name	CAS Number	EINECS Number	% Composition	Classification according to Regulation (EC) No. 1272/2008 (CLP)	notes
indolybutyric acid	133-32-4	205-101-5	0.33%	Acute toxicity (oral). Cat 4 H302 Reproductive toxicity Cat 2 H361fd	This ingredient is an approved active substance for plant protection products. The classification presented here is in line with the EFSA conclusion. A harmonised classification is not yet complete

Contains no classified components over 1%.

See section 16 for full description of the text of each classification.

Section 4. First Aid Measures**4.1 Description of first aid measures****Inhalation**

No inhalation exposure of this mixture is expected due to the nature of its use, however, should exposure occur, please seek medical attention.

Skin contact

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

Accidental eye contact

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

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

4.2 Most important symptoms and effects, both acute and delayed

None expected from the mixture

4.3 Indication of any immediate attention and special treatment needed

None expected from the mixture

Section 5. Firefighting Measures**5.1 Extinguishing media**

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

5.2 Special hazards arising from the substance or mixture

None known.

5.3 Advice for fire-fighters

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

Section 6. Accidental Release Measures**6.1 Personal precautions, protective equipment and emergency procedures**

Protective gloves and eye goggles should be worn. An apron or protective clothing should also be worn in the event of contact with the substance.

6.2 Environmental precautions

Take precautionary measures against discharges into the environment.

6.3 Methods and material for containment and cleaning up

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.

6.4 Reference to other sections

Please also refer to Sections 8 and 13.

Section 7. Handling and Storage**7.1 Precautions for safe handling**

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

7.2 Condition for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

For use in the propagation of plant cuttings.

Section 8. Exposure Controls/Personal Protection**8.1 Control parameters**

Workers:

AOEL for indolylbutyric acid was determined to be 0.025 mg/kg bw/d.

8.2 Exposure controls**Appropriate Engineering Controls**

Not applicable.

Respiratory protection

As the mixture is a liquid and there is no risk of exposure via inhalation route, no respiratory protection is required.

Hand protection

It is good standard practice to wear gloves to prevent risk of exposure from splashes.

Eye protection

It is good standard practice to wear safety goggles.

Skin protection

It is not applicable but it is good standard practice to wear an apron or protective clothing in case of danger of contact.

Thermal Hazards

Not applicable.

Environmental Exposure Controls

Not applicable.

Section 9. Physical and Chemical Properties**9.1 Information on basic physical and chemical properties of Clonex**

Appearance:	Purple, viscous liquid before storage and pale mauve /brown viscous liquid after storage for 14 days at 54°C
Odour:	Weak uncharacteristic odour
Odour threshold:	
pH:	7.0 – 8.0
Melting point/freezing point °C:	No information
Initial boiling point and boiling range °C:	About 100 degrees Celsius (formulation)
Flash point:	No flash point was observed up to 102°C. The mixture does not have a flash point below its boiling point.
Evaporation rate:	No information
Flammability:	Not required for an undiluted liquid formulation
Upper Flammability:	Not required for an undiluted liquid formulation
Lower Flammability:	Not required for an undiluted liquid formulation
Vapour pressure:	Not required for an undiluted liquid formulation
Vapour density	Not required for an undiluted liquid formulation
Relative density:	Before storage: 1.02 After storage at 54°C for 14 days: 1.02
Solubility:	Information relating to active substance: Solubility in water: At pH 4, Ws= 0.346 g/L at 20°C At pH 7, Ws= 14.7 g/L at 20°C At pH 10, Ws= 95.1 g/L at 20°C Solubility in organic solvents:

	0.08 to 3.9 mg/L (depends on nominal content) in N-heptane 24.5 g/L in dichloromethane: 334 g/l in methanol 500 g/L in acetone 159 g/L in ethyl acetate Solubility in aromatic hydrocarbon is required.
Partition Coefficient: n-octanol/water:	Information relating to active substance: At pH 4: log Pow = 2.3 (20°C; purity: 99.8%) At pH 7: log Pow = 0.36 (20°C; purity: 99.8%) At pH 10: log Pow = -0.83 (20°C; purity: 99.8%)
Auto-ignition temperature:	The product was determined to have an auto-ignition temperature of 396 ±5 °C and 420 ±5 °C.
Decomposition temperature:	No information
Viscosity:	No information
Explosive properties:	Not explosive due to nature of the mixture as the mixture is unlikely to undergo a rapid chemical decomposition with the production of gases or release of heat sufficient to cause damage to the surroundings.
Oxidising properties:	Not oxidising as none of the individuals components of the mixture are oxidisers.

9.2 Other information

No additional information available.

Section 10. Stability and Reactivity**10.1 Reactivity**

Unreactive under normal conditions of recommended use.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

Not applicable for this mixture.

10.4 Conditions to avoid

Not applicable for this mixture.

10.5 Incompatible materials

Not applicable for this mixture.

10.6 Hazardous decomposition products

Not applicable for this mixture.

Section 11. Toxicological Information**11.1 Information on toxicological effects****Acute Toxicity:**

Toxicity	Method	Species	Evaluation	Remarks
Acute Oral Toxicity	OECD Guideline 401	Sprague Dawley rats	LD ₅₀ >2000 mg/kg bw	Study was conducted on the product Clonex
Acute Dermal Toxicity	OECD Guideline 402	Sprague Dawley rats	LD ₅₀ >4000 mg/kg bw	Study was conducted on the product Clonex

Skin Corrosion/Irritation:

Toxicity	Method	Species	Evaluation	Remarks
Skin Irritation	OECD Guideline 404	New Zealand White rabbit	Mild irritant	Study was conducted on the product Clonex

Serious eye damage/irritation:

Toxicity	Method	Species	Evaluation	Remarks
Eye Irritation	OECD Guideline 405	New Zealand White rabbit	Minimal irritant	Study was conducted on the product Clonex

Respiratory or skin sensitisation:

Toxicity	Method	Species	Evaluation	Remarks
Skin Sensitisation	OECD Guideline 429	Mouse	No sensitising potential	Study was conducted on the product Clonex

Route of exposure:

Most likely routes of exposure is *via* dermal and oral exposure.

Symptoms related to the physical, chemical and toxicological characteristics:

Not applicable as minimal risk of adverse effects due to nature of the mixture.

Section 12. Ecological Information**12.1 Toxicity**

Toxicity	Exposure time	Species	Evaluation	Remarks
Aquatic toxicity	96 hours	<i>Leuciscus melanotus idus</i>	96 hour LC ₅₀ : 210 mg a.s./L	Study was conducted on active substance indolybutyric acid.
Aquatic toxicity	48 hours	<i>Daphnia magna</i>	48 hour EC ₅₀ : 112 mg a.s./L (nom)	Study was conducted on active substance indolybutyric acid.
Aquatic toxicity		Algae	E _y C ₅₀ : 101 mg a.s./L	Study was conducted on active substance indolybutyric acid.

12.2 Persistence and degradability

Persistence and rate of degradation is not evaluated as the mixture is used solely for indoor use. All treated plants are placed in containers so there is no risk of contamination of natural soil.

12.3 Bioaccumulative potential

The risk for bioaccumulation is considered to be low, since the log Pow for indolylbutyric acid is 0.36.

12.4 Mobility in soil

Mobility in soil is not evaluated as the mixture is used solely for indoor use. All treated plants are placed in containers so there is no risk of contamination of natural soil.

12.5 Results of PBT and vPvB assessment

No assessment was conducted.

12.6 Other adverse effects

Not applicable

Section 13. Disposal Considerations

13.1 Waste treatment methods**Disposal operations –**

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

Disposal of packaging –

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

Please follow all local, regional, national and international laws.

Section 14. Transport Information

14.1 UN number

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

14.2 UN proper shipping name

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

14.3 Transport hazard class(es)

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

14.4 Packing group

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

14.5 Environmental hazards

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

14.6 Special precautions for user

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

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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

Section 15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Not applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been conducted for this mixture.

Section 16. Other Information

Other information

16.1 Indication of changes since last version

Modification to format and content due to implementation of Regulation (EU) No 2015/830.
Removal of old Directive classifications since no longer in force.

16.2 List of Abbreviations:

H-statements:

H302: Harmful if swallowed.
H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.

AOEL: Acceptable Operator Exposure Level
CAS: Chemical Abstracts Services
EC: European Community
EEC: European Economic Community
EINECS: European Inventory of Existing Commercial Chemical Substances
EC50: Half maximal effective concentration
LC50: Lethal concentration causing 50% death in test species
LD50: Lethal dose causing 50% death in test species
PBT: Persistent, Bioaccumulative, Toxic
vPvB: Very Persistent and very Bioaccumulative

16.3

The conclusion of non-classification of Clonex product arises from the plant protection product approval submissions and conclusions in accordance with Regulation (EC) No 1272/2008.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.