## **Material Safety Data Sheet – CLONEX**

Issue Data         Issue Data           Issue Data         August 1999 Revised January 2001           Company Name         Growth Technology Ltd.           Address         Unit 66, Taunton Trading Estate, TAUNTON TA2 6RX, United Kingdom           Telephone         01823 325291           Fax         01823 325291           Fax         01823 325487           E-mail         info@growthtechnology.com           Identification         Product Name           Product Name         Clonex Rooting Hormone Gel           DG Class         Class 6           Poisons         Not scheduled           Schedule         Propagation of plant cuttings           Physical Data         Appearance           Appearance         Purple viscous solution           Boiling point         Not applicable           Specific Gravity         approx 1.0           Flash Point         Not applicable           Soluble         Soluble           Vater         Soluble           Odour         Slight           Form         Viscous solution           Stabli         Stable           Haz.         Will not occur           Polymerisation         not applicable           Indele butyri	Product Name	Clonex Rooting Hormone Gel				
Company Name       Growth Technology Ltd.         Address       Unit 66, Taunton Trading Estate, TAUNTON TA2 6RX, United Kingdom         Telephone       01823 325291         Fax       01823 325487         E-mail       info@growthtechnology.com         Identification						
Company Name       Growth Technology Ltd.         Address       Unit 66, Taunton Trading Estate, TAUNTON TA2 6RX, United Kingdom         Telephone       01823 325291         Fax       01823 325291         Fax       01823 325291         Fax       01823 325497         E-mail       info@growthtechnology.com         Identification       Product Name         Product Name       Clonex Rooting Hormone Gel         DG Class       Class 6         Poisons       Not scheduled         Schedule       Propagation of plant cuttings         Physical Data       Propagation of plant cuttings         Appearance       Purple viscous solution         Boiling point       Not applicable         Vapour Pressure       Not applicable         Soluble       Soluble         Vater       Soluble         Other Properties       PI Value         Pl Value       7.0-8.0         Odour       Slight         Form       Viscous solution         Stability       Stable         Haz.       Pire/Explosion         Pot applicable       Proportion         Will not occur       97% - 98%         2-Hydroxyethyl cellulose       900						
Address       Unit 66, Taunton Trading Estate, TAUNTON TA2 6RX, United Kingdom         Telephone       01823 325291         Fax       01823 325487         E-mail       info@growthtechnology.com         Identification       Info@growthtechnology.com         Product Name       Clonex Rooting Hormone Gel         DG Class       Class 6         Product Use       Propagation of plant cuttings         Physical Data       Appearance         Appearance       Purple viscous solution         Boiling point       Not applicable         Specific Gravity       approx 1.0         Flash Point       Not applicable         Soluble       Soluble         Water       Soluble         Odour       Slight         Form       Viscous solution         Stability       Stable         Haz.       Will not occur         Polymerisation       Inde pulpicable         Tigredients       Soluble         Water       97% – 98%         2-Hydroxyethyl cellulose       904-62-0       1.2%         Indole butyric acid       133-32-4       0.3%         Health Hazard Information       Acute - Skin       Acuse irritation         Acute - Eyk						
Telephone       01823 325291         Fax       01823 325487         E-mail       info@growthtechnology.com         Identification       Product Name         Product Name       Clonex Rooting Hormone Gel         DG Class       Class 6         Poisons       Not scheduled         Schedule       Propagation of plant cuttings         Physical Data       Appearance         Appearance       Purple viscous solution         Boiling point       Not applicable         Yapour Pressure       Not applicable         Solubility in       Soluble         Water       Soluble         Odour       Slight         Form       Viscous solution         Stability       Stable         Haz.       Will not occur         Polymerisation       Indoe butyric acid         Ingredients       133-32-4         Rame       CAS         Yeldroxyethyl cellulose may cause faintness, convulsions, muscle spasms and blood abnormalities (methaaemoglobinaemia) if swallowed in large amounts.         Acute - Skin       May cause irritation         Acute - Skin       May cause irritation	. ,					
Fax       01823 325487         E-mail       info@growthtechnology.com         Identification          Product Name       Clonex Rooting Hormone Gel         DG Class       Class 6         Poisons       Not scheduled         Schedule       Propagation of plant cuttings         Physical Data       Appearance         Appearance       Purple viscous solution         Boiling point       Not applicable         Vapour Pressure       Not applicable         Solubility in       Soluble         Water       Solubility         Odour       Slight         Form       Viscous solution         Stability       Stable         Haz.       Will not occur         Polymerisation       Indole butyric acid         Indel butyric acid       133-32-4         Year - Shin       Sholowed in large amounts.         Acute - Eye       May cause mild irritation         Acute - Eye       May cause irritation						
E-mail info@growthtechnology.com Identification Product Name Clonex. Rooting Hormone Gel DG Class Class 6 Poisons Not scheduled Schedule Product Use Propagation of plant cuttings Physical Data Appearance Purple viscous solution Boiling point Not applicable Specific Gravity approx 1.0 Flash Point Not applicable Soluble Vater Physicau Silght Form Viscous solution Stability Stable Haz. Polymerisation Fire/Explosion not applicable Ingredients Name CAS Proportion Water 970% - 98% 2-Hydroxyethyl cellulose may cause faintness ,convulsions, muscle spasms and blood abnormalities (methaemoglobinaemia) if swallowed in large amounts. Acute - Skin May cause irritation Chronic None known	-					
Identification       Product Name       Clonex Rooting Hormone Gel         DG Class       Class 6         Poisons       Not scheduled         Schedule       Propagation of plant cuttings         Physical Data       Appearance         Appearance       Purple viscous solution         Boiling point       Not applicable         Vapour Pressure       Not applicable         Specific Gravity       approx 1.0         Flash Point       Not applicable         Solubility in       Soluble         Water       Solubility         Other Properties       Pf Viscous solution         Stability       Stable         Haz.       Will not occur         Polymerisation       Ind applicable         Ingredients       Indole butyric acid         Indole butyric acid       133-32-4       0.3%         Health Hazard Information       Z-hydroxyethyl cellulose may cause faintness ,convulsions, muscle spasms and blood abnormalities (methaemoglobinaemia) if swallowed in large amounts.         Acute - Skin       May cause irritation         Acute - Skin       May cause irritation	E-mail					
DG Class       Class 6         Poisons       Not scheduled         Product Use       Propagation of plant cuttings         Physical Data       Appearance         Appearance       Purple viscous solution         Boiling point       Not applicable         Vapour Pressure       Not applicable         Specific Gravity       approx 1.0         Flash Point       Not applicable         Solubility in       Soluble         Water       Soluble         Other Properties       Viscous solution         Stability       Stable         Haz.       Yole Suble         Viscous solution       Stable         Haz.       Will not occur         Polymerisation       not applicable         Ingredients       Water         Ingredients       97% - 98%         2-Hydroxyethyl cellulose       9004-62-0       1.2%         Indole butyric acid       133-32-4       0.3%         Health Hazard Information       Acute -       2-hydroxyethyl cellulose may cause faintness ,convulsions, muscle spasms and blood abnormalities (methaemoglobinaemia) if swallowed in large amounts.         Acute - Skin       May cause irritation       Acute - Skin         Avicuse ritation       None known	Identification					
Poisons ScheduleNot scheduledProjagation of plant cuttingsPhysical DataAppearancePurple viscous solutionBoiling pointNot applicableVapour PressureNot applicableSpecific Gravity approx 1.0approx 1.0Flash PointNot applicableSolubleSolubleSolublity in WaterSolubleOther PropertiesPH Value7.0-8.0OdourSlightFormViscous solutionStabilityStableStabilityStableIngredientsIngredientsNot applicableCASPoynerisationRing CASProportionIngredientsAuter004-62-01.2%Indole butyric acid133-32-4Oute - StainSwallowedBoind abnormalities (methaemoglobinaemia) if swallowed in large amounts.Acute - SkinMay cause irritationAcute - SkinMay cause irritation	Product Name	Clonex Rooting Hormone Gel				
SchedulePropagation of plant cuttingsProduct UsePropagation of plant cuttingsPhysical DataPurple viscous solutionBoiling pointNot applicableVapour PressureNot applicableSpecific Gravityapprox 1.0Flash PointNot applicableSolubility in WaterSolubleOther PropertiesImage: Solubility in Viscous solutionFormViscous solutionStabilityStableStabilityStableStabilityStableFormViscous solutionStabilityStableStabilityStablePhysical DataImage: SolubleMareCASProportionFire/Explosionnot applicableSolubleImage: SolubleImage: SolubleImage: SolubleAumeCASProportionWater9004-62-0Image: Solubly SolublicyFire/ExplosionIndice butyric acidImage: SolublicyKeute - SkinMay cause mild irritationAcute - SkinMay cause irritationChronic	DG Class					
Physical Data         Appearance       Purple viscous solution         Boiling point       Not applicable         Vapour Pressure       Not applicable         Specific Gravity       approx 1.0         Flash Point       Not applicable         Solubility in       Soluble         Water       Soluble         Other Properties		Not scheduled				
AppearancePurple viscous solutionBoiling pointNot applicableVapour PressureNot applicableSpecific Gravityapprox 1.0Flash PointNot applicableSolubility in WaterSolubleOther PropertiespH Value7.0-8.0OdourSlightFormViscous solutionStableHaz. PolymerisationWill not occurPire/Explosionnot applicableIngredientsIngredientsMameCASProportionMater9004-62-01.2-Hydroxyethyl cellulose9004-62-0Indole butyric acid133-32-4O.3-32-40.3%Health Hazard InformationAcute - Swallowed2-hydroxyethyl cellulose may cause faintness ,convulsions, muscle spasms and blood abnormalities (methaemoglobinaemia) if swallowed in large amounts.Acute - EyeMay cause mild irritationAcute - SkinMay cause irritationChronicNone known	Product Use	Propagation of plant cuttings				
Boiling pointNot applicableVapour PressureNot applicableSpecific Gravity approx 1.0approx 1.0Flash PointNot applicableSolubility in WaterSolubleOther PropertiesSolublepH Value7.0-8.0OdourSlightFormViscous solutionStabilityStableHaz. PolymerisationWill not occurPire/Explosion Ingredientsnot applicableIngredientsIngredientsMameCASProportionWater97% - 98%2-Hydroxyethyl cellulose9004-62-01.2%Indole butyric acid133-32-40.3%Health Hazard InformationZ-hydroxyethyl cellulose may cause faintness ,convulsions, muscle spasms and blood abnormalities (methaemoglobinaemia) if swallowed in large amounts.Acute - SkinMay cause mild irritationAcute - SkinMay cause irritationChronicNone known	Physical Data					
Vapour PressureNot applicableSpecific Gravityapprox 1.0Flash PointNot applicableSolubility in WaterSolubleSolubleSolubleOther PropertiespH Value7.0-8.0OdourSlightFormViscous solutionStabilityStableHaz. PolymerisationWill not occurPire/Explosionnot applicableIngredientsIngredientsMameCASProportionWater9004-62-01.2%Indole butyric acid133-32-40.3%Health Hazard Information2-hydroxyethyl cellulose may cause faintness ,convulsions, muscle spasms and blood abnormalities (methaemoglobinaemia) if swallowed in large amounts.Acute - SkinMay cause mild irritationAcute - SkinMay cause irritationChronicNone known	Appearance	Purple viscous solution				
Specific Gravity       approx 1.0         Flash Point       Not applicable         Solubility in       Soluble         Water       Soluble         Other Properties	Boiling point	Not applicable				
Flash PointNot applicableSolubleSolubleSolubleOther PropertiespH Value7.0-8.0OdourSlightFormViscous solutionStability <th <="" colspan="2" th=""><th>Vapour Pressure</th><th colspan="3">Not applicable</th></th>	<th>Vapour Pressure</th> <th colspan="3">Not applicable</th>		Vapour Pressure	Not applicable		
Solubility in WaterSolubleOther PropertiespH Value7.0-8.0OdourSlightFormViscous solutionStabilityStableMainWill not occurPolymerisationnot applicableFire/Explosionnot applicableIngredientsNameVater97% - 98%2-Hydroxyethyl cellulose9004-62-0Indole butyric acid133-32-4Acute - Swallowed2-hydroxyethyl cellulose may cause faintness ,convulsions, muscle spasms and blood abnormalities (methaaenoglobinaemia) if swallowed in large amounts.Acute - SkinMay cause irritationChronicNone known	Specific Gravity	approx 1.0				
WaterOther PropertiesPH Value7.0-8.0OdourSlightFormViscous solutionStabilityStableHaz. PolymerisationWill not occurPire/Explosionnot applicableIngredientsNameCASVater9004-62-0Z-Hydroxyethyl cellulose9004-62-0Indole butyric acid133-32-4Acute - Swallowed2-hydroxyethyl cellulose may cause faintness ,convulsions, muscle spasms and blood abnormalities (methaemoglobinaemia) if swallowed in large amounts.Acute - Skin May cause mild irritationMay cause irritationChronicNone known	Flash Point	Not applicable				
pH Value7.0-8.0OdourSlightFormViscous solutionStabilityStableHaz. PolymerisationWill not occurFire/Explosionnot applicableIngredientsNameCASVater97% - 98%2-Hydroxyethyl cellulose9004-62-0Indole butyric acid133-32-4Acute - Swallowed2-hydroxyethyl cellulose may cause faintness ,convulsions, muscle spasms and blood abnormalities (methaemoglobinaemia) if swallowed in large amounts.Acute - EyeMay cause mild irritationAcute - SkinMay cause irritationChronicNone known		Soluble				
OdourSlightFormViscous solutionStabilityStableHaz. PolymerisationWill not occurFire/Explosionnot applicableIngredientsNameCASVater97% - 98%2-Hydroxyethyl cellulose9004-62-01.2%Indole butyric acid133-32-40.3%Health Hazard InformationZ-hydroxyethyl cellulose may cause faintness ,convulsions, muscle spasms and blood abnormalities (methaemoglobinaemia) if swallowed in large amounts.Acute - Swallowed2-hydroxyethyl cellulose may cause faintness ,convulsions, muscle spasms and blood abnormalities (methaemoglobinaemia) if swallowed in large amounts.Acute - EyeMay cause mild irritationAcute - SkinMay cause irritationChronicNone known	Other Properties					
FormViscous solutionStabilityStableHaz. PolymerisationWill not occurFire/Explosionnot applicableIngredientsNameCASVater97% - 98%2-Hydroxyethyl cellulose9004-62-0Indole butyric acid133-32-4Health Hazard InformationAcute - Swallowed2-hydroxyethyl cellulose may cause faintness , convulsions, muscle spasms and blood abnormalities (methaemoglobinaemia) if swallowed in large amounts.Acute - EyeMay cause mild irritationAcute - SkinMay cause irritationChronicNone known	pH Value	7.0-8.0				
StabilityStableHaz. PolymerisationWill not occurFire/Explosionnot applicableIngredientsNameCASProportionVater97% - 98%2-Hydroxyethyl cellulose9004-62-01.2%Indole butyric acid133-32-40.3%Health Hazard InformationAcute - Swallowed2-hydroxyethyl cellulose may cause faintness ,convulsions, muscle spasms and blood abnormalities (methaemoglobina=mia) if swallowed in large amounts.Acute - SkinMay cause irritationChronicNone known	Odour	Slight				
Haz. PolymerisationWill not occurFire/Explosionnot applicableIngredientsIngredientsNameCASProportionWater97% - 98%2-Hydroxyethyl cellulose9004-62-01.2%Indole butyric acid133-32-40.3%Health Hazard InformationAcute - Swallowed2-hydroxyethyl cellulose may cause faintness ,convulsions, muscle spasms and blood abnormalities (methaemoglobinaemia) if swallowed in large amounts.Acute - EyeMay cause mild irritationAcute - SkinMay cause irritationChronicNone known	Form	Viscous solution				
PolymerisationIndependentFire/Explosionnot applicableIngredientsIngredientsNameCASProportionWater9004-62-01.2%2-Hydroxyethyl cellulose9004-62-01.2%Indole butyric acid133-32-40.3%Health Hazard I	Stability	Stable				
Ingredients       Name       CAS       Proportion         Water       97% – 98%         2-Hydroxyethyl cellulose       9004-62-0       1.2%         Indole butyric acid       133-32-4       0.3%         Health Hazard Information         Acute -       2-hydroxyethyl cellulose may cause faintness ,convulsions, muscle spasms and blood abnormalities (methaemoglobinaemia) if swallowed in large amounts.         Acute - Eye       May cause mild irritation         Acute - Skin       May cause irritation         Chronic       None known		Will not occur				
NameCASProportionWater97% - 98%2-Hydroxyethyl cellulose9004-62-01.2%1.2%Indole butyric acid133-32-40.3%Health Hazard InformationAcute - Swallowed2-hydroxyethyl cellulose may cause faintness ,convulsions, muscle spasms and blood abnormalities (methaemoglobinaemia) if swallowed in large amounts.Acute - EyeMay cause mild irritationAcute - SkinMay cause irritationChronicNone known	Fire/Explosion	not applicable				
Water97% - 98%2-Hydroxyethyl cellulose9004-62-01.2%Indole butyric acid133-32-40.3%Health Hazard InformationAcute - Swallowed2-hydroxyethyl cellulose may cause faintness ,convulsions, muscle spasms and blood abnormalities (methaemoglobinaemia) if swallowed in large amounts.Acute - EyeMay cause mild irritationAcute - SkinMay cause irritationChronicNone known	Ingredients					
2-Hydroxyethyl cellulose9004-62-01.2%Indole butyric acid133-32-40.3%Health Hazard InformationAcute - Swallowed2-hydroxyethyl cellulose may cause faintness ,convulsions, muscle spasms and blood abnormalities (methaemoglobinaemia) if swallowed in large amounts.Acute - EyeMay cause mild irritationAcute - SkinMay cause irritationChronicNone known		Name	CAS	Proportion		
Indole butyric acid133-32-40.3%Health Hazard Information0.3%Acute - Swallowed2-hydroxyethyl cellulose may cause faintness ,convulsions, muscle spasms and blood abnormalities (methaemoglobinaemia) if swallowed in large amounts.Acute - EyeMay cause mild irritationAcute - SkinMay cause irritationChronicNone known		Water		97% - 98%		
Health Hazard Information         Acute -       2-hydroxyethyl cellulose may cause faintness ,convulsions, muscle spasms and blood abnormalities (methaemoglobinaemia) if swallowed in large amounts.         Acute - Eye       May cause mild irritation         Acute - Skin       May cause irritation         Chronic       None known		2-Hydroxyethyl cellulose	9004-62-0	1.2%		
Acute - Swallowed2-hydroxyethyl cellulose may cause faintness ,convulsions, muscle spasms and blood abnormalities (methaemoglobinaemia) if swallowed in large amounts.Acute - EyeMay cause mild irritationAcute - SkinMay cause irritationChronicNone known		Indole butyric acid	133-32-4	0.3%		
Swallowedblood abnormalities (methaemoglobinaemia) if swallowed in large amounts.Acute - EyeMay cause mild irritationAcute - SkinMay cause irritationChronicNone known	Health Hazard In	formation				
Acute - Skin     May cause irritation       Chronic     None known		blood abnormalities (methaemoglobinaemia) if swallowed in large amounts.				
Chronic None known	Acute - Eye	May cause mild irritation				
	Acute - Skin	May cause irritation				
First Aid	Chronic	None known				
	First Aid					

If conscious, drink large quantities of water, after which vomiting should be induced by a properly qualified person. Seek immediate medical assistance. Never give anything by mouth to an unconscious person.		
Immediately flush with plenty of low pressure water for at least 15 minutes. Remove any contact lenses. Seek medical assistance.		
Wash with soap and running water.		
oxy ethyl cellulose may cause methaemoglobinaemia if systemically absorbed.		
nsport		
To protect product quality, store in sealed containers out of direct sunlight.		
Avoid contact with eyes, skin or clothing. Wash thoroughly after handling and before eating, drinking or smoking.		
sal		
Sweep up spilled material. Flush spill area with water. Product is slippery.		
Dispose of in accordance with local, state and federal regulations.		
on		
Ingredient: Hydroxyethyl cellulose: not a skin or eye irritant based on human patch tests. Oral administration of large doses in corn oil produced diarrhoea in rats.		
Ingredient: Indole butyric acid: LD50 (oral rat) 5000mg/kg. Not considered carcinogenic. Overexposure may cause irritation.		
This product is biodegradable.		
50 ml, 250 ml, 1 L, 5 L, 25 L		

The information above is believed to be accurate and represents the best information currently available to us. It is the users obligation to evaluate and use this product safely and to comply with all relevant Federal, State and Local Government laws and regulations. Growth Corporation Pty Ltd shall not be responsible for loss, damage or injury resulting from reliance upon or failure to adhere to any recommendations or information contained herein, from abnormal use of the material, or from any hazard inherent in the nature of the material.