



Safety Data Sheet

According to Regulation (EC) No 453/2010 (REACH)

Trade name: Growing Success Fungus Stop (RTU Mix)

Version:1.0 Revision date: 15.09.2020

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1 Product Growing Success Fungus Stop (RTU Mix)

1.2 Relevant identified use Plant health product

1.3 Details of the supplier of the safety data sheet:

Westland Horticulture Ltd
14 Granville Industrial Estate
Granville Road
Dungannon
County Tyrone
BT70 1NJ

Email customerservice@WestlandHorticulture.com

1.4 Emergency telephone number 01480 443789 (UK) 24hrs

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture According to Regulation (EC) No 1272/2008:

Unclassified

2.2 Label Elements According to Regulation (EC) No 1272/2008:

Hazard Pictograms Not required

Signal Word Not required

Hazard Statements Not required

Precautionary Statements

P102 Keep out of reach of children

P103 Read label before use

3. COMPOSITION/INFORMATION ON INGREDIENTS



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3.1 Substances: N/A

3.2 Description Growing Success Fungus Stop RTU Mix

Hazardous Ingredients

Ingredient	Identifiers	Concentration %W/W	Warning Symbols	Regulation (EC) No 1272/2008 (CLP)
Copper oxychloride	CAS: 1332-65-6	0.1-0.2%		Acute Tox. 3 (oral); H301 Acute Tox. 4 (inhal); H332 Aquatic Acute 1; H400 M=10 Aquatic Chron. 1; H410 M=10

For the full text of the H Statements mentioned in this section, see section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General information: Have the product container, label or Material Safety Data Sheet with you when calling a poison control center or physician, or going for treatment.
Remove any clothing soiled by the product

Inhalation: Move the victim to fresh air or supply oxygen
If breathing is irregular or stopped, administer artificial respiration.
Keep patient warm and at rest.
Call a doctor or Poison Control Centre.

Skin Contact: Take off all contaminated clothing
Wash off with plenty of soap and water
Wash contaminated clothing before re-use.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses and continue flushing.
Consult a doctor

Ingestion: If swallowed seek medical advice immediately and show container or label.

4.2 Most important symptoms and effects, both acute and delayed: N/A



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4.3 Indication of any immediate medical attention and special treatment needed: N/A

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

Extinguishing media – small fires: Use water jet, alcohol-resistant foam, dry chemical or carbon dioxide

Extinguishing media – large fires: Alcohol resistant foam or water jet

5.2 Specific Hazards Arising From the Substance or Mixture:

Possible formation of toxic gases during heating or in fire: nitrogen oxides (NO_x), carbon monoxide (CO), sulphur dioxide (SO₂). Under certain conditions traces of other toxic gases cannot be excluded.

5.3 Advice for Fire Fighters:

Wear full protective clothing and self-contained breathing apparatus.
Do not inhale explosion or combustion gases.

Additional Information:

Do not allow run-off from fire fighting to enter drains or water courses.
Dispose of fire debris and contaminated water in accordance with official regulations.
Cool closed containers exposed to fire with water spray. Keep upwind

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Refer to protective measures listed in sections 7 and 8.
Keep unprotected people away

6.2 Environmental Precautions:

Inform respective authorities in case product reaches water or sewage system.
Do not allow to enter drainage system, surface or ground water.

6.3 Methods and Materials for Containment and Cleaning Up:



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Absorb with liquid binding material (sand, diatomite, acid binder, universal binder, sawdust).

Dispose of contaminated material as waste according to Section 13.

Ensure adequate ventilation

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling:

- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols, work only in fume cupboard.
- Keep ignition sources away.
- Do not drink, eat or smoke while working.
- The product is not flammable.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

- Store only in original container.
- Keep containers closed tightly in a dry, cool and well-ventilated place.
- Keep out of reach of children
- Keep away from food, drink and animal feeding stuffs.
- Protect from frost
- Protect from heat and direct sunlight

7.3 Specific End Uses:

Use only as herbicide according to the instruction on the label

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Component(s)	Exposure Limit(s)	Type of exposure limit	Source
Copper and compounds (dust and mists)	1mg/m ³	8 h TWA	EH40/2005
	2mg/m ³	15minute reference period	



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8.2 Exposure Controls

8.2.1 Appropriate engineering controls: The use of technical measures should always have priority over the use of personal protective equipment

8.2.2 Personal protective equipment: The use of technical measures should always have priority over the use of personal protective equipment
When selecting personal protective equipment, seek appropriate professional advice
Personal protective equipment should be certified to appropriate standards

Respiratory Protection: No personal respiratory protective equipment normally required.
A particulate filter respirator may be necessary until effective technical measures are installed.

Hand Protection: Chemical resistant gloves are not usually required.
Select gloves based on the physical job requirements.

Eye Protection: Eye protection is not usually required
Follow any site specific eye protection policies

Skin And Body Protection: No special protective equipment required
Select skin and body protection based on the physical job requirements

8.2.3 Environmental exposure controls: N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Colour: greenish

Odour: Characteristic

Odour threshold: no data

pH: 6.8-7.3

Melting point /freezing point: No data

Initial boiling point/boiling range: No data



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Flash point: No data

Evaporation rate: No data

Flammability (solid, gas): No data

Upper/lower flammability or explosive limits: No data

Upper explosive limits: No data

Lower explosive limits: No data

Vapour pressure: No data

Vapour density: No data

Density: 0.98 – 1.03 g/cm³

Solubility(ies): Soluble in water

Partition coefficient

n-octanol/water: No data

Auto-ignition temperature: No data

Decomposition temperature: No data

Viscosity: No data

Viscosity, dynamic: No data

Viscosity, cinematic: No data

Explosive properties: Not classified as explosive

Oxidising properties: Not classified as oxidising

9.2 Other information: No data

Physical hazards: N/A

10 STABILITY AND REACTIVITY

10.1 Reactivity: Hazardous reactions will not occur under normal transport or storage conditions

10.2 Chemical Stability: Stable under normal conditions of storage, handling and use

10.3 Possibility of hazardous reactions: No information available

10.4 Conditions To Avoid: No information available, stable under normal conditions



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10.5 Incompatible Materials: No information available

10.6 Hazardous Decomposition products: No decomposition if used according to specifications
Thermal decomposition products may include toxic and corrosive fumes of chlorides and toxic oxides of nitrogen.

11 TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

The toxicological data has been taken from higher concentration products and cut off values noted in regulation 1272/2008.

11.1 Information on toxicological effects

Acute Oral Toxicity: acute toxicity range estimate >2000 mg/kg

Acute Inhalation Toxicity: acute toxicity range estimate >20mg/l

Acute Dermal Toxicity: acute toxicity range estimate >2000 mg/kg

Skin corrosion/Irritation: not classified as corrosive/irritation

Eye damage/ Irritation: not classified as eye damage/irritating

Respiratory or Skin Sensitization: No sensitization effect known

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) No mutagenic, carcinogenic, teratogenic or reproductive toxicity effects known

STOT- repeated exposure: No data available

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Mixture classified as harmful to aquatic life with long lasting effects based on copper oxychloride component

Copper oxychloride:

Aquatic toxicity:

Data on acute aquatic toxicity and classification:



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The acute toxicity of copper ions was assessed using 451 L (E) C50 values from studies carried out on soluble copper compounds. An L(E) C50 of 25.0 µg Cu / L (referred to the geometric mean) obtained on *Daphnia magna* at pH 5.5-6.5 is the lowest species-specific value.

Copper is an essential nutrient regulated by homeostatic mechanisms that is not subject to phenomena bioaccumulation. Bioavailable copper ions are rapidly eliminated from the water column.

Classification according to CLP / GHS:

Aquatic Acute 1, H400: Very toxic to aquatic life. M-Factor 10.

Aquatic Chronic 1, H410: Very toxic to aquatic life with long lasting effects

Long-term toxicity

Chronic fresh water toxicity and derivation of the PNEC data

The chronic toxicity of copper ions from copper soluble compounds is estimated by taking in the values of 139 NOEC / EC10 of 27 representative species of different trophic levels (fish, invertebrates and algae). The species-specific NOEC values were normalized using Biotic models Ligand is used to derive the Sensitivity Distribution of the Species (SSD) and the corresponding value lower concentration of safeguard HC5 (the median of the fifth percentile of the SSD) of 7.8 µg Cu dissolved / L.

This value is considered to be 90% protective for European surface waters and represents a reasonable worst case. A chronic PNEC value for fresh water of 7.8 µg Cu dissolved / L was

established, applying an assessment factor of 1, for the estimation of local risk.

Chronic toxicity for sea water and derivation of the PNEC data

The chronic toxicity of copper ions from copper soluble compounds is estimated by taking in Consider the values of 51 NOEC / EC10 of 24 species representative of the different trophic levels (fish, invertebrates and algae).

The species-specific NOEC values were calculated after the normalization for the quantity of Dissolved Organic Carbon (DOC) and has been used to derive the values of SSD and HC5. There standardization of a typical DOC of coastal waters of 2 mg / l resulted in a HC5 of 5.2 µg Cu dissolved / L.

A chronic PNEC value for sea water of 5.2 µg Cu dissolved / L was established, applying a assessment factor of 1, for the estimate of local risk.

Chronic toxicity for freshwater sediments and derivation of the PNEC data

The chronic toxicity of copper ions from copper soluble compounds is estimated by taking in Consider the values of 62 NOEC / EC10 of 6 benthic species.

The NOECs have been related to DOC and to Volatile Acid Sulphides (AVS) and have been used for derive the values of SSD and HC5. A value of HC5 of 1741 mg Cu / kg, corresponding to 87 mg Cu / kg / dw, is calculated for low AVS sediments with a base organic carbon value of 5%.

A chronic PNEC value for freshwater sediment of 87 mg Cu / kg / dw was established by applying a assessment factor of 1, for the estimate of local risk.

Terrestrial toxicity:



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Chronic terrestrial toxicity and derivation of the PNEC data

The chronic toxicity of copper ions from copper soluble compounds is estimated by taking in consideration of the 252 NOEC / EC10 values of 28 species representing different trophic levels (decomposers, primary producers, primary consumers). The NOEC values have been adjusted keeping account of the differences between contaminated soil in the laboratory and contaminated soil in the field, adding a leaching factor of 2. These values were subsequently normalized to a range of EU soils using regressive bioavailability models and used to derive SSD and more value low of HC5 which is 65.5 mg Cu / kg / dw.

Applying an assessment factor of 1 assigns a base value of soil PNEC of 65.5 mg Cu / kg / dw

STP toxicity

The chronic toxicity of copper ions from copper soluble compounds is estimated using values of NOEC and EC50 of high quality studies with bacteria and protozoa used in sludge treatment plants waste water (STP).

The statistically derived NOEC is 0.23 mg Cu / L in STP.

Applying an assessment factor of 1 assigns a PNEC value of 0.23 mg Cu / L for the STPs.

12.2 Persistence and Degradability: No information available

12.3 Bioaccumulative Potential: No Information available

12.4 Mobility in Soil: No Information available

12.5 Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects: No data

Other information

Avoid release to the environment

Do not allow product to reach groundwater, water bodies or sewage system

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Do not contaminate ponds, waterways or ditches with chemical or used container.
Do not dispose of waste into sewer.
Where possible recycling is preferred to disposal or incineration.
If recycling is not practicable, dispose of in compliance with local regulations.



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Contaminated Packaging: Empty remaining contents.
Completely empty containers can be put in the bin or disposed of in compliance with applicable local regulations
Do not reuse empty containers.

14 TRANSPORT INFORMATION

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN No.	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.2 UN Proper shipping name	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.3 Transport hazard class(es)	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
Hazard label(s)	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.4 Packing group	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.5 Environmental hazards	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods

14.6 Special precautions for user: None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Additional information: None

15 REGULATORY INFORMATION

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

This mixture is classified and labelled according to the CLP Regulation (EC) No 1272/2008



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15.2 Chemical Safety Assessment: No information available

16 OTHER INFORMATION

16.1 Indication of changes: None

16.2 Abbreviations and Acronyms

ADR	International Carriage of Dangerous Goods by Road
CAS No	Chemicals Abstract Service Registry Number
Directive 67/548/EEC	Dangerous Substances Directive (DSD)
EC No	European Community Number for chemicals within EU regulations
IATA-DGR	Dangerous Goods Regulations by the International Air Transport Association
IMDG Code	International Maritime Dangerous Goods Code
MAPP	Ministerially Approved Pesticide Product
PBT	Persistent, Bioaccumulative and Toxic Properties
Regulation (EC) No 1272/2008	Classification, Labelling and Packaging (CLP)
RID	International Transport of Dangerous Goods by Rail
vPvB	Very Persistent and Very Bioaccumulative Properties

16.3 Key literature references and sources for data: EH40 workplace exposure limits.

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008
[CLP]: See SECTION 2.1 (classification).

CLP/GHS:

Acute Toxicity (oral) category 3
Acute Toxicity (inhalation) category 4
Aquatic Acute 1
Aquatic Chronic 1

16.5 Relevant H- and EUH-phrases (number and full text):

H301	Toxic if swallowed
H332	Harmful if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

16.6 Training advice: Follow the instructions



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16.7 Further information

Before using this product, ensure that you read and understand its label

MSDS information:

This Safety Data Sheet is prepared in compliance with Directive 1999/45/EC, 1272/2008 and Annex I of the REACH regulation 453/2010.

This safety data sheet provides health and safety information. This product is to be used in applications with best use practice. Individuals handling this product should be informed under COSHH of the recommended safety precautions and should have access to this information. The product information in this data sheet is to the best of our knowledge correct as at the date of publication. Westland Horticulture Limited does not accept responsibility for damage caused by incorrect use of this information.

Training and related advice:

This document contains important information to ensure the safe storage, handling and use of this product. It is the responsibility of your organisation to ensure that the information contained in this document is communicated to the end user and that all necessary training to enable the product to be used correctly has been given.

For further information please contact Westland Horticulture Ltd, 14 Granville Industrial Estate, Granville Road, Dungannon, County Tyrone, BT70 1NJ.