

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture  
Product name : Hygrozyme  
Product code : Not available

### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Horticultural enzymatic formula

### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

Sipco Innovations Inc.  
Unit 107 - 7717 Beedie Way  
Delta, BC V4G 0A5  
T (604) 940-9922 (8:00 am – 4:00 pm)

### 1.4. Emergency telephone number

Emergency number : CANUTEC (613) 996-6666 (Transport only)

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

#### GHS classification

Resp. Sens. 1

### 2.2. GHS Label elements, including precautionary statements

#### GHS labelling

Hazard pictograms (GHS) :



Signal word (GHS) :

Danger

Hazard statements (GHS) :

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements (GHS) :

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear respiratory protection.

If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a poison center or doctor.

Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity

Not applicable.

# Hygrozyme

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According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name      | Chemical name / Synonyms   | Product identifier | %     |
|-----------|--|--------------------|-------|
| Cellulase | Cellulase<br>Fungal cellulase / CELLULASE / Cellulase<br>(trichoderma longibrachiatum) | CAS-No.: 9012-54-8 | 1 - 5 |

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures after inhalation   | : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.          |
| First-aid measures after skin contact | : If irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists.  |
| First-aid measures after eye contact  | : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.   |
| First-aid measures after ingestion    | : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell. |

#### 4.2. Most important symptoms and effects (acute and delayed)

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects after inhalation   | : May cause respiratory tract irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.                          |
| Symptoms/effects after skin contact | : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.  |
| Symptoms/effects after eye contact  | : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. |
| Symptoms/effects after ingestion    | : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.  |

#### 4.3. Immediate medical attention and special treatment, if necessary

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

|                                |   |
|--------------------------------|---|
| Suitable extinguishing media   | : Use extinguishing media appropriate for surrounding fire. |
| Unsuitable extinguishing media | : Do not use water jet.                                     |

#### 5.2. Specific hazards arising from the chemical

|             |   |
|-------------|---|
| Fire hazard | : Products of combustion may include, and are not limited to: oxides of carbon. |
|-------------|---|

#### 5.3. Special protective equipment and precautions for fire-fighters

|                                |  |
|--------------------------------|--|
| Protection during firefighting | : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). |
|--------------------------------|--|

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Avoid breathing vapour or mist.

##### 6.1.1. For non-emergency personnel

No additional information available

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

No additional information available

#### 6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so. Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.

Methods for cleaning up : Scoop up material and place in a disposal container. Provide ventilation.

#### 6.4. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.

Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-ventilated area. Avoid exposure to direct sunlight and excess heat for extended periods of time.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Cellulase (9012-54-8)

No additional information available

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Environmental exposure controls : Maintain levels below Community environmental protection thresholds. Avoid release to the environment

#### 8.3. Individual protection measures/Personal protective equipment

##### Hand protection:

Wear suitable gloves.

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### Eye protection:

Safety glasses or goggles are recommended when using product.

### Skin and body protection:

Wear suitable protective clothing.

### Respiratory protection:

Wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

### Other information:

Handle according to established industrial hygiene and safety practices.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |                      |
|--|----------------------|
| Physical state                             | : Liquid             |
| Appearance                                 | : No data available. |
| Colour                                     | : Dark amber         |
| Odour                                      | : No data available  |
| Odour threshold                            | : No data available  |
| pH   | : 4.5                |
| Melting point                              | : No data available  |
| Freezing point                             | : No data available  |
| Boiling point                              | : No data available  |
| Flash point                                | : No data available  |
| Relative evaporation rate (butylacetate=1) | : No data available  |
| Flammability                               | : Non flammable.     |
| Vapour pressure                            | : No data available  |
| Relative vapour density at 20°C / 68 °F    | : No data available  |
| Relative density                           | : 1.02               |
| Solubility                                 | : No data available  |
| Partition coefficient n-octanol/water      | : No data available  |
| Auto-ignition temperature                  | : No data available  |
| Decomposition temperature                  | : No data available  |
| Viscosity, kinematic                       | : No data available  |
| Viscosity, dynamic                         | : No data available  |
| Explosive limits                           | : No data available  |
| Explosive properties                       | : No data available  |
| Oxidising properties                       | : No data available  |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

# Hygrozyme

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According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

### 10.2. Chemical stability

Stable under normal storage conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

### 10.4. Conditions to avoid

Heat.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified.  
Acute toxicity (dermal) : Not classified.  
Acute toxicity (inhalation) : Not classified.

#### Cellulase (9012-54-8)

|                     |  |
|---------------------|--|
| LD50 oral rat       | > 2880 mg/kg bodyweight Animal: rat, Guideline: other: |
| LC50 inhalation rat | > 4.86 mg/l/4h   |

Skin corrosion/irritation : Not classified.  
pH: 4.5  
Serious eye damage/irritation : Not classified.  
pH: 4.5  
Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Germ cell mutagenicity : Not classified.  
Carcinogenicity : Not classified.  
Reproductive toxicity : Not classified.  
STOT-single exposure : Not classified.  
STOT-repeated exposure : Not classified.

#### Cellulase (9012-54-8)

|                            |  |
|----------------------------|--|
| NOAEL (oral, rat, 90 days) | ≥ 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
|----------------------------|--|

Aspiration hazard : Not classified.  
Symptoms/effects after inhalation : May cause respiratory tract irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Symptoms/effects after skin contact : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.  
Symptoms/effects after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.  
Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

| Cellulase (9012-54-8) |  |
|-----------------------|--|
| LC50 - Fish [1]       | > 100 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)  |
| EC50 - Crustacea [1]  | > 100 mg/l Test organisms (species): Daphnia magna   |
| LC50 - Fish [2]       | > 52.1 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [2]  | > 52.1 mg/l Test organisms (species): Daphnia magna  |

#### 12.2. Persistence and degradability

##### Hygrozyme

|                               |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

#### 12.3. Bioaccumulative potential

##### Hygrozyme

|                           |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### SECTION 14: Transport information

In accordance with DOT / TDG

#### 14.1. UN number

Not regulated for transport

#### 14.2. UN proper shipping name

|                            |                  |
|----------------------------|------------------|
| Proper Shipping Name (DOT) | : Not applicable |
| Proper Shipping Name (TDG) | : Not applicable |

#### 14.3. Transport hazard class(es)

##### DOT

|                                  |                  |
|----------------------------------|------------------|
| Transport hazard class(es) (DOT) | : Not applicable |
|----------------------------------|------------------|

# Hygrozyme

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

### TDG

Transport hazard class(es) (TDG) : Not applicable

### 14.4. Packing group

Packing group (DOT) : Not applicable

Packing group (TDG) : Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

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

Not applicable

## SECTION 15: Regulatory information

### 15.1 Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

### 15.2. International regulations

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Revision date : 02/08/2023

Other information : None.

Prepared by : Nexreg Compliance Inc.

[www.Nexreg.com](http://www.Nexreg.com)



### Full text of H-statements

|               |                                       |
|---------------|---------------------------------------|
| Resp. Sens. 1 | Respiratory sensitisation, Category 1 |
|---------------|---------------------------------------|

### Indication of changes:

SDS update.

SDS HazCom 2012 - WHMIS 2015 (Nexreg) 2023

# Hygrozyme

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

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