

Hygrozyme Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

SECTION 1: Identification of the su	ubstance/mixture and of	the company/up	dertaking	
1.1. Product identifier		the company/an	uontanting	
Product name	: Hygrozyme			
Product code	: Not available			
.2. Relevant identified uses of the su	bstance or mixture and uses	dvised against		
lse of the substance/mixture	: Horticultural enzymatic fo	•		
1.3.Details of the supplier of the safeSipco Bioengineering Inc.7236 Wilson Ave.Delta, BC V4G 1H3T (604) 940-9922	ry data sheet			
I.4. Emergency telephone number				
mergency number	: CANUTEC (613) 996-666	6		
<b>SECTION 2: Hazards identification</b>				
.1. Classification of the substance of	mixture			
GHS-US classification Respiratory sensitization 1				
.2. Label elements				
GHS-US labelling				
lazard pictograms (GHS-US)	GHS08			
Signal word (GHS-US)	: Danger			
Hazard statements (GHS-US) Precautionary statements (GHS-US)	protection. If inhaled: If brea	gas/mist/vapors/spray. I athing is difficult, remove espiratory symptoms: Ca	In case of inade e person to fres all a poison cen	equate ventilation, wear respiratory h air and keep comfortable for tter/doctor. Dispose of contents
.3. Other hazards				
lo additional information available.				
.4. Unknown acute toxicity (GHS US)	l.			
5 percent of the mixture consists of ingredier	t(s) of unknown acute toxicity.			
ECTION 3: Composition/informat	ion on ingredients			
.1. Substance				
lot applicable.				
.2. Mixture				
Name	Product identifie	• • • • •	%	GHS-US classification
Cellulase	(CAS No) 9012-54-8	1	1 - 5	Resp. Sens. 1
he exact percentage (concentration) of composition	has been withheld as a trade secret	in accordance with parag	graph (i) of §1910	0.1200.
ECTION 4: First aid measures				
.1. Description of first aid measures				
irst-aid measures after inhalation				est in a position comfortable for center or doctor/physician.
irst-aid measures after skin contact				attention if irritation persists.
First-aid measures after eye contact		liately flush eyes with p		. Remove contact lenses, if worn.
First-aid measures after indestion	1 5		eted to do co h	w modical porsonnol. Novor givo

: 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.

First-aid measures after ingestion

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

4.3. Indication of any immediate medical attention and special treatment needed

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).

SECT	FION 5: Firefighting measure	es
5.1.	Extinguishing media	
Suitab	le extinguishing media	: Treat for surrounding material.
Unsuit	able extinguishing media	: None known.
5.2.	Special hazards arising from th	e substance or mixture
Fire ha	zard	: Products of combustion may include, and are not limited to: oxides of carbon.
5.3.	Advice for firefighters	
Protec	tion during firefighting	<ul> <li>Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).</li> </ul>

SECTION	ON 6: Accidental release meas	ures la constant de l
6.1.	Personal precautions, protective equi	pment and emergency procedures
General r	neasures	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Avoid breathing vapor or mist.
6.2.	Methods and material for containment	t and cleaning up
For conta	inment	: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
Methods	for cleaning up	: Scoop up material and place in a disposal container. Provide ventilation.

#### 6.3. Reference to other sections

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

<b>SECTION 7: Handling</b>	and storage
7.1. Precautions for s	afe handling
Precautions for safe handling	: Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/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 sa	fe storage, including any incompatibilities
Storage conditions	: Keep out of the reach of children. Keep container tightly closed. Keep from freezing.
7.3. Specific end use(	s)

Not available.

8.1. C	Control parameters		
Cellulase	e (9012-54-8)		
ACGIH		Not applicable	
OSHA		Not applicable	
8.2. E	Exposure controls		
Appropriate	e engineering controls	;	: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
Personal pr	rotective equipment		: Avoid all unnecessary exposure.
Hand prote	ection		: None necessary under normal conditions of use. Wear gloves if handling large quantities.
Eye protect	tion		: Safety glasses or goggles are recommended when using product.

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Skin and body protection	: None necessary under normal conditions of use.
Respiratory protection	: In case of insufficient ventilation, 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.
Environmental exposure controls	: Maintain levels below Community environmental protection thresholds.
Other information	: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

### SECTION 9: Physical and chemical properties

9.1. Information on basic physical and Physical state	: Liquid
Appearance	No data available.
Color	: Dark amber
Odor	: No data available
Odor threshold	: No data available
рН	: 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 (solid, gas)	: Not flammable
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Vapor pressure	: No data available
Relative density	: 1.02
Relative vapor density at 20 °C	: No data available
Solubility	: No data available
Partition coefficient: n-octanol/water	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	

No additional information available.

SECT	ON 10: Stability and reactivity
10.1.	Reactivity
No dang	perous reaction known under conditions of normal use.
10.2.	Chemical stability
Stable u	inder normal storage conditions.
10.3.	Possibility of hazardous reactions
No dang	gerous reaction known under conditions of normal use.
10.4.	Conditions to avoid
Heat.	
10.5.	Incompatible materials
None kr	iown.
10.6.	Hazardous decomposition products
May inc	lude, and are not limited to: oxides of carbon.

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SECTION 11: Toxicological informati	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified.
Hygrozyme	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	> 20 mg/l/4h
Skin corrosion/irritation	: Based on available data, the classification criteria are not met.
Serious eye damage/irritation	: Based on available data, the classification criteria are not met.
Respiratory or skin sensitzation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure)	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: May cause respiratory tract irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/injuries after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/injuries after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: May cause long-term adverse effects in the aquatic environment.
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	
Effect on the global warming	: No known ecological damage caused by this product.
SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT.	
Not regulated for transport.	
Additional information	
Other information	: No supplementary information available.

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### **SECTION 15: Regulatory information**

#### 15.1. US 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.

15.2. US State regulations	
Hygrozyme	
State or local regulations	This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.
SECTION 16: Other in	ormation
Date of issue	: 02/17/2016

Other information

: None.

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