

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Product name : Hyshield

1.2. Recommended use and restrictions on use

Recommended use : Plant nutrient & soil amendment

1.3. Supplier

Manufacturer

Sipco Innovations Inc.
Unit 107 - 7717 Beedie Way
V4G 0A5 Delta, BC
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 identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Eye Irrit. 2A H319

2.2. GHS Label elements, including precautionary statements

GHS-CA labelling

Hazard pictograms (GHS-CA) :



Signal word (GHS CA) : Warning
Hazard statements (GHS-CA) : H319 - Causes serious eye irritation.
Precautionary statements (GHS-CA) : P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
alpha hydroxy acid	(CAS-No.) Trade Secret	0.5 – 1.5

Comments : *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. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact : If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation persists.
First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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First-aid measures after ingestion	: Do not induce vomiting without medical advice. 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 irritation to the respiratory tract.
Symptoms/effects after skin contact	: May cause skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
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	
Other medical advice or treatment	: Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media	
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
5.2. Unsuitable extinguishing media	
Unsuitable extinguishing media	: None known.
5.3. Specific hazards arising from the hazardous product	
Fire hazard	: Products of combustion may include, and are not limited to: oxides of carbon.
5.4. 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).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	
General measures	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
6.2. Methods and materials for containment and cleaning up	
For containment	: 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	: Sweep or shovel spills into appropriate container for disposal. Provide ventilation.
6.3. Reference to other sections	
For further information refer to section 8: "Exposure controls/personal protection"	

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	: Wash contaminated clothing before reuse. Always wash hands after handling the product.
7.2. Conditions for safe storage, including any incompatibilities	
Storage conditions	: Keep out of the reach of children. Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters	
No additional information available	
8.2. Appropriate engineering controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.
Environmental exposure controls	: Avoid release to the environment.
8.3. Individual protection measures/Personal protective equipment	
Hand protection:	
Wear suitable gloves	
Eye protection:	
Wear eye/face protection	

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Skin and body protection:

Not required for normal conditions of use

Respiratory protection:

Not required for normal conditions of use

Other information:

Handle in accordance with good industrial hygiene and safety procedures. When using do not eat or drink.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Viscous. Clear liquid.
Colour	: Colorless to pale yellow
Odour	: Characteristic
Odour threshold	: No data available
pH	: 2.8 – 3.6
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 100 °C (212 °F)
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not flammable
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available
Relative density	: No data available
Solubility	: Soluble in water
Partition coefficient n-octanol/water	: No data available
Viscosity, kinematic	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	: No dangerous reactions known under normal conditions of use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Heat.
Incompatible materials	: None known.
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.

alpha hydroxy acid (Trade Secret)	
LD50 oral rat	3730 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Skin corrosion/irritation	: Not classified. pH: 2.8 – 3.6
Serious eye damage/irritation	: Causes serious eye irritation. pH: 2.8 – 3.6

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Respiratory or skin sensitization	: Not classified.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.
Reproductive toxicity	: Not classified.
STOT-single exposure	: Not classified.
STOT-repeated exposure	: Not classified.
Aspiration hazard	: Not classified.
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: May cause skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: May cause long-term adverse effects in the aquatic environment.
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alpha hydroxy acid (Trade Secret)	
LC50 fish 1	320 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
LC50 fish 2	100 – 180 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	240 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Daphnia 2	180 – 320 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

12.2. Persistence and degradability

Hyshield	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Hyshield	
Bioaccumulative potential	Not established.
alpha hydroxy acid (Trade Secret)	
Partition coefficient n-octanol/water	-0.62

12.4. Mobility in soil

alpha hydroxy acid (Trade Secret)	
Partition coefficient n-octanol/water	-0.62

12.5. Other adverse effects

Ozone	: Not classified.
Other information	: No other effects known.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
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SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG
Transportation of Dangerous Goods
Not regulated for transport

14.2. Transport information/DOT

No additional information available

14.3. Air and sea transport

No additional information available

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SECTION 15: Regulatory information

15.1. National regulations

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.

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15.2. International regulations

No additional information available

SECTION 16: Other information

Issue date	: 09-10-2020
Revision date	: 09-10-2020
Other information	: None.
Prepared by	: Nexreg Compliance Inc. www.Nexreg.com



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