

### Section 1. Chemical Product and Company Information

Product Name : HayFresh, ForageGuard  
 Other means of identification : Not applicable  
 Recommended Use : Mold inhibitor for hay and forages  
 Restrictions on Use : Reserved for industrial and professional use.

Supplier Information : AgroChem Inc.  
 26 Freedom Way  
 Saratoga Springs, NY 12866  
 (518) 226-4850

Product Dilution : See product label.

Date of issue : 09/08/2022

EPA Registration : 82808-1

EMERGENCY HEALTH INFORMATION : 1 (800) 424-9300  
 Outside United States and Canada CALL: +1 (703) 741-5500

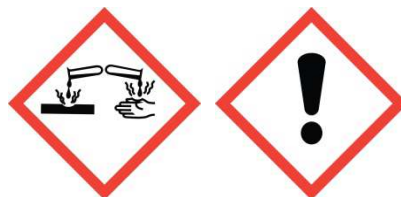
### Section 2. Hazards Identification

#### GHS Classification

GHS Classification	Category
Skin irritation	: 2
Eye Irritation	: 2A

#### GHS Label Element

Hazard pictograms :



Signal Word : Danger  
 Hazard Statements : Causes skin and eye irritation.  
 Precautionary Statements :

#### Prevention:

Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection. Do not mix with bleach or other chlorinated products – will cause chlorine gas.

#### Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove

victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.

**Storage:** Store locked up.

**Disposal:** Dispose of contents/ container to an approved waste disposal plant.

Other hazards : None Known

### Section 3. Composition / Information on Ingredients

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
Propionic acid	79-09-4	68
Ammonium hydroxide	17496-08-1	25 - 35

### Section 4. First Aid Measures

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician : Treat symptomatically.

**See toxicological information (Section 11)**

**Section 5. Fire-Fighting Measures**

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Not flammable or combustible.
- Hazardous combustion products : Decomposition products may include the following materials:  
Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus
- Special protective equipment for fire-fighters : Use personal protective equipment.
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

**Section 6. Accidental Release Measures**

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

**Section 7. Handling and Storage**

Advice on safe handling	Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not mix with bleach or other chlorinated products – will cause chlorine gas.
Conditions for safe storage	Keep away from strong bases. Keep out of reach of children. Store in suitable labeled containers.
Storage temperature	< 50 °C / 122°F

**Section 8. Exposure Controls / Personal Protection**

Ingredients	CAS-No.	Form of Exposure	Permissible Concentration	Basis
Propionic acid	79-09-4	Inhalation	10 ppm	US. ACGIH

Engineering measures	: Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.
Personal protective equipment	
Eye protection	: Safety goggles / face protection
Hand protection	Wear the following personal protective equipment: Standard glove type. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin protection	: Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
Respiratory protection	: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

**Section 9. Physical and Chemical Properties**

Appearance	: Liquid
Color	: Clear, Green
Odor	: Vinegar
pH	: 6.0, 100%
Flash point	: Not applicable
Odor Threshold	: No data available
Melting point/freezing point	: < - 29 °C
Initial boiling point and boiling range	: > 100°C
Evaporation Rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapor pressure	: No data available
Relative vapor density	: No data available
Relative density	: 8.8 lbs/gal
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Molecular weight	: No data available
VOC	: No data available

### **Section 10. Stability and Reactivity**

Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Do not mix with bleach or other chlorinated products – will cause chlorine gas.
Conditions to avoid	None known.

Incompatible materials

Bases  
Metals

Hazardous decomposition products

Decomposition products may include the following materials:  
Carbon oxides  
Nitrogen oxides (NOx)  
Sulfur oxides  
Oxides of phosphorus

<b>Section 11. Toxicological Information</b>
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Information on likely routes of exposure

: Inhalation, Eye contact, Skin contact

**Potential Health Effects**

:

Eyes

: Causes serious eye irritation.

Skin

: Causes severe skin irritation.

Ingestion

: Causes digestive tract irritation.

Inhalation

: May cause nose, throat, and lung irritation.

Chronic Exposure

: Health injuries are not known or expected under normal use.

**Experience with human exposure**

:

Eye contact

: Redness, Pain, Corrosion

Skin contact

: Redness, Pain, Corrosion

Ingestion

: Corrosion, Abdominal pain

Inhalation

: Respiratory irritation, Cough

**Toxicity**

: No data available

Acute oral toxicity

: No data available

Acute inhalation toxicity

: No data available

Acute dermal toxicity

: No data available

Skin corrosion/irritation

: No data available

Serious eye damage/eye irritation

: No data available

Respiratory or skin sensitization

: No data available

Carcinogenicity

: No

Reproductive effects

: No data available

Germ cell mutagenicity

: No data available

Teratogenicity

: No data available

STOT-single exposure

: No data available

STOT-repeated exposure : No data available  
Aspiration toxicity : No data available

## Section 12. Ecological Information

### Ecotoxicity

Environmental Effects : Releases to the environment should be avoided. The environmental characteristics of this material have not been fully evaluated.

### Ingredients

**Persistence and degradability** : No data available

**Bioaccumulative potential** : No data available

**Mobility in soil** : No data available

**Other adverse effects** : No data available

## Section 13. Disposal Considerations

Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

RCRA - Resource Conservation and Recovery Authorization Act Hazardous waste : D002 (Corrosive)

## Section 14. Transport Information

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

**Land transport (DOT)** : Non Hazardous  
UN number :  
Description of the goods :  
Class :  
Packing group :  
Environmentally hazardous :

**Sea transport (IMDG/IMO)** : Non Hazardous  
UN number :  
Description of the goods :  
Class :  
Packing group :  
Environmentally hazardous :

### Section 15. Regulatory Information

EPA Registration Number : 82808-2 (HF), 82808-1(FG)  
**EPCRA - Emergency Planning and Community Right-to-Know**

#### CERCLA Reportable Quantity

**SARA 304** : This material does not contain any components with a section 304 EHS RQ.  
**SARA 311/312 Hazards** : Acute Health Hazard  
**SARA 302** : The following components are subject to reporting levels established by SARA Title III, Section 302:  
**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.  
**California Prop 65** : Carcinogen initial date 3/14/03

The ingredients of this product are reported in the following inventories:

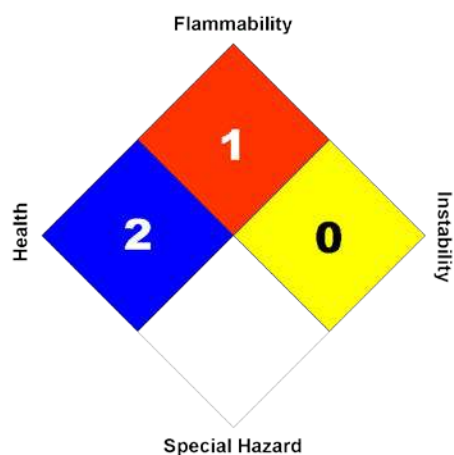
**United States TSCA Inventory** : On TSCA Inventory  
**Canadian Domestic Substances List (DSL)** : All components of this product are on the Canadian DSL.  
**Australia Inventory of Chemical Substances (AICS)** : On the inventory, or in compliance with the inventory  
**New Zealand. Inventory of Chemical Substances** : On the inventory, or in compliance with the inventory  
**Japan. ENCS - Existing and New Chemical Substances Inventory** : On the inventory, or in compliance with the inventory  
**Japan. ENCS - Existing and** : On the inventory, or in compliance with the inventory



**New Chemical Substances Inventory**

<b>Japan. ISHL - Inventory of Chemical Substances</b>	: On the inventory, or in compliance with the inventory
<b>Korea. Korean Existing Chemicals Inventory (KECI)</b>	: On the inventory, or in compliance with the inventory
<b>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</b>	: On the inventory, or in compliance with the inventory
<b>China. Inventory of Existing Chemical Substances in China (IECSC)</b>	: On the inventory, or in compliance with the inventory

### Section 16. Other Information


**HMIS III:**

<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = Not Significant, 1 = Slight  
 2 = Moderate, 3 = High  
 4 = Extreme, \* = Chronic

Issuing date : 8/4/2015  
 Version : 1  
 Prepared by : RJD

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.