Completion Date: 09/12/2013 Revision Date: 09/12/2013

Version Number:



## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

# **MOLD-ZAP® CITRUS**

1.2 Other means of identification Not applicable

1.3 Recommended use of the chemical and restrictions on use

**MOLD-ZAP® CITRUS** is a dry flavour enhanced mold inhibitor.

1.4 Details of the supplier of the safety data sheet

Alltech Inc.

3031 Catnip Hill Pike Nicholasville, KY 40356

Phone: (01) (859) 885-9613 [U.S.A.] Fax: (01) (859) 887-6736 [U.S.A.]

1.5 Emergency telephone number

> Chem Trec: 1-800-424-9300 24 hours

### SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification:

Specific target organ toxicity following single exposure, (category 3)

H Phrases:

H 335 May cause respiratory irritation.

P Phrases:

P 261 Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. P 271

P 304+340 IF INHALED: Remove victim to fresh air and keep at rest In a position

comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell. P312 P403+233 Store in a well-ventilated place. Keep container tightly closed.

P 405 Store locked up.

P501 Dispose of contents/container in accordance with

local/regional/national/international regulations.

Completion Date: 09/12/2013 Revision Date: 09/12/2013

Version Number: 1

2.2 GHS Label elements Not applicable

2.3 Other hazards

Inhalation: May cause respiratory irritation. If application creates dust, use

appropriate approved respiratory protection.

Skin Contact: Skin contact may cause severe burns. Symptoms may include redness,

itching and pain.

Eye Contact: Product may cause eye damage. Symptoms include redness, itching and

pain.

Ingestion: Not found to be toxic by oral exposure. Ingestion of this product may cause

slight irritation.

Chronic Health

Effects: Not identified.

### SECTION 3: Composition/information of ingredients

3.1 Substances Not applicable

### 3.2 Mixtures

CAS#:	Component	Weight %
NA	Wheat bran	Not disclosed
790-09-4	Propionic acid (a preservative)	Not disclosed
1318-00-9	Vermiculite	Not disclosed
NA	Ground corn cobs	Not disclosed
1336-21-6	Ammonium hydroxide	Not disclosed
112926-00-8	Silicon dioxide	Not disclosed
8028-48-6	Oil of orange	Not disclosed
64-19-7	Acetic acid	Not disclosed
65-85-0	Benzoic acid (a preservative)	Not disclosed
110-44-1	Sorbic acid (a preservative)	Not disclosed
87-69-4	Tartaric acid	Not disclosed

NA: Not applicable

### SECTION 4: First aid measures

Description of first aid measures

Eyes: Flush eyes immediately with copious amounts of clean water for 15

minutes. If irritation or redness persists, seek medical attention if allergic

response exhibited.

Skin: Remove affected clothing immediately. Flush affected area(s) with copious

amounts of soap and water. If skin surface is damaged, apply a clean dressing. Wash contaminated clothing before reuse. If irritation or redness

develops, seek medical attention immediately.

Inhalation: Remove victim from source and allow to rest in well ventilated area. If

breathing is difficult, obtain medical attention immediately.

4.1

Completion Date: 09/12/2013 Revision Date: 09/12/2013

Version Number:

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. Seek medical

attention.

4.2 Most important symptoms and effects, both acute and delayed Not identified.

4.3 Indication of any immediate medical attention and special treatment needed Not identified.

## SECTION 5: Firefighting measures

5.1 Suitable extinguishing media

> Use media that is appropriate to treat surrounding fire. Consider alcohol-resistant foam, carbon dioxide, regular dry chemical, or water spray. Avoid heavy stream of water. Self contained breathing apparatus is required.

5.2 Special hazards arising from the substance or mixture

> Evolves carbon dioxide, carbon monoxide or hydrocarbon fumes upon combustion.

5.3 Special protective actions for fire-fighters

> Move container from fire area if it can be done without risk. Do not scatter spilled material with high pressure water streams. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products.

Fire fighters should wear self-contained breathing apparatus with full face piece operated in positive pressure mode and protective clothing to prevent contact with skin and eyes.

### SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

> Ventilate the area. Wear appropriate protective equipment as specified in section 8. Avoid dust formation and avoid inhalation of dust. Use a respirator or a combination filter. Keep unnecessary personnel away.

6.2 Environmental precautions

> Place contaminated materials in disposal containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material. Do not dispose in canals, surface water, or ground water.

6.3 Methods and material for containment and cleaning up

> Sweep, shovel, or vacuum up the material. Avoid any excess dust formation. Use caution as product may be slippery when wet. Keep product out of sewage and drainage systems and all bodies of water. Clean spills immediately. Ventilate the contaminated area. Thoroughly wash the area with water after a spill.

### SECTION 7: Handling and storage

7.1 Precautions for safe handling

> Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly with soap and water after handling. The use of respiratory protection is advised when dust concentrations exceed any established exposure limits (see section 8).

Completion Date: 09/12/2013 Revision Date: 09/12/2013

Version Number:

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

Store in a closed container away from heat and light. Shelf life under these conditions is 36 months.

# SECTION 8: Exposure controls/personal protection

8.1 Control parameters

> Component (CAS#): Propionic acid (CAS#: 79-09-4)

> > TWA: 10 ppm

#### 8.2 Appropriate engineering controls:

Use process enclosure, general dilution ventilation, or local exhaust systems, where necessary to maintain airborne dust concentrations below the applicable regulations. A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits.

#### 8.3 Individual protection measures

Eye/face: Protective goggles or face shields.

Skin: Wear impervious gloves and general purpose overalls with elasticized

cuffs and leg bottoms.

Respiratory: Wear a dust mask or other appropriate approved respiratory protection

when effective engineering controls are not feasible or during operations that generate airborne dust concentrations exceeding the relevant standards. A respiratory protection program that meets applicable requirements whenever workplace conditions warrant a respirator's use.

### SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<ul> <li>(a) Physical appearance</li> <li>(b) Odor</li> <li>(c) Odor Threshold</li> <li>(d) Bulk Density</li> <li>(e) pH</li> <li>(f) Melting point/freezing point</li> <li>(g) Initial boiling point</li> <li>(h) Flash point</li> <li>(i) Evaporation rate</li> <li>(j) Flammability</li> <li>(k) Upper/lower flammability or explosive limits</li> <li>(l) Vapour pressure</li> <li>(m) Vapour density</li> <li>(n) Relative density</li> <li>(o) Solubility</li> <li>(p) Partition coefficient: n-octanol/water</li> <li>(q) Auto ignition temperature</li> </ul>	Brown powder Pungent odor Not available 518.1 kg/m³ Not available
<ul><li>(p) Partition coefficient: n-octanol/water</li><li>(q) Auto ignition temperature</li><li>(r) Decomposition temperature</li></ul>	
(s) Viscosity	Not available

#### 9.2 Other information

Completion Date: 09/12/2013 Revision Date: 09/12/2013

Version Number:

To the best of our knowledge the chemical, physical, and toxicological properties of this product have not been thoroughly investigated.

## SECTION 10: Stability and reactivity

10.1	Reactivity	Not available
10.2	Chemical stability	Product is stable under normal storage conditions (21 °C,
		1atm).
10.3	Possibility of hazardous reactions	Not available
10.4	Conditions to avoid	Avoid moisture, heat and sources of ignition.
10.5	Incompatible materials	Not available
10.6	Hazardous decomposition products	Not available

### SECTION 11: Toxicological information

#### Information on toxicological effects 11.1

Propionic acid (CAS#: 79-09-4) (a) Acute toxicity

Oral[rat]: 2600 mg/kg

(b) Skin corrosion/irritation Not expected to be toxic. Exposure may cause slight

irritation.

(c) Serious eye damage/irritation Not available (d) Respiratory or skin sensitization Not available (e) Germ cell mutagenicity Not available (f) Carcinogenicity Not applicable (g) Reproductive toxicity Not applicable (h) STOT-single exposure Not applicable (i) STOT-repeated exposure Not applicable Not applicable (i) Aspiration hazard

11.2 Information on the likely routes of exposure Not applicable

- 11.3 Symptoms related to the physical, chemical and toxicological characteristics Not applicable
- 11.4 Delayed and immediate effects and also chronic effects from short and long term exposure Not applicable
- 11.5 Other information

Other toxicological information: To the best of our knowledge the chemical, physical and toxicological properties of this product have not been thoroughly investigated.

### SECTION 12: Ecological information

#### 12.1 Toxicity

	Component (CAS#:) Test & Species:	Propionic acid (CAS#: 79-09-4) LC50[Leuciscus idus]: >10000 mg/l - 96h TLm[Daphnia magna]: 130 mg/l - 24h
12.2	Persistence and degradability	Not available
12.3	Bioaccumulative potential	Not available
12.4	Mobility in soil	Not available
12.6	Other adverse effects	Not available

Completion Date: 09/12/2013 Revision Date: 09/12/2013 Version Number: 1

# SECTION 13: Disposal considerations

13.1 Waste treatment methods Not identified

Disposal Instructions: Consult local, state and/or provincial environmental regulatory authorities for acceptable disposal procedures and locations. Follow standard disposal procedures in accordance with Directive 2008/98/EC of the European Parliament and of the Council of the Member State.

# SECTION 14: Transport information

14.1	UN number	Not applicable
14.2	UN proper shipping name	Not applicable
14.3	Transport hazard class(es)	Not applicable
14.4	Packing group	Not applicable
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	Not applicable
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
	Not applicable	

# SECTION 15: Regulatory information

15.1 Safety, health, and environmental regulation/legislation specific for the substance or mixture Not available

### SECTION 16: Other information

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Previous Issue Date: None

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