



### WinZyme

## 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** WinZyme  
**SDS Number:** 3154  
**Revision Date:** 12/3/2015  
**Product Description:** Multi-Strain Spore Based Enzyme Concentrate  
**Supplier Details:** Winsol Laboratories Inc  
1417 NW 51st St  
Seattle, WA 98107  
**Emergency:** INFOTRAC 1-800-535-5053 (North America); 1-352-323-3500 (International)  
**Phone:** 206-782-5500  
**Web:** www.winsol.com

## 2 HAZARDS IDENTIFICATION

### Classification of the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Health, Acute toxicity, 5 Oral  
Health, Acute toxicity, 5 Dermal  
Health, Respiratory or skin sensitization, 1 Skin  
Health, Serious Eye Damage/Eye Irritation, 2 A

### GHS Label elements, including precautionary statements

**GHS Signal Word:** **WARNING**

**GHS Hazard Pictograms:**



#### GHS Hazard Statements:

H303 - May be harmful if swallowed  
H313 - May be harmful in contact with skin  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation

#### GHS Precautionary Statements:

P102 - Keep out of reach of children.  
P103 - Read label before use.  
P281 - Use personal protective equipment as required.  
P301 - IF SWALLOWED: May cause gastrointestinal irritation.  
P302 - IF ON SKIN: Prolonged or repeated and confined exposure may cause skin irritation. Wash contaminated clothing and footwear before reuse.  
P304 - IF INHALED: Not considered dangerous.  
P305 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists consult medical personnel.



### WinZyme

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

##### Ingredients:

Cas#	%	Chemical Name
1300-72-7	3-10%	Benzenesulfonic acid, dimethyl-, sodium salt
77-92-9	.1-1%	1,2,3-Propanetricarboxylic acid, 2-hydroxy-
68439-50-9	.5-2%	Alcohols, C12-14, ethoxylated
0	1-5%	Viable Bacteria Cultures
1310-73-2	.1-.5%	Sodium hydroxide solution
2634-33-5	<0.1%	1,2-Benzisothiazol-3(2H)-one

"0" equals no Cas# available/trade secret

The exact percentage (or concentration) of ingredients has been withheld as a trade secret.

Composition Comments: Components and trace elements not listed are either non-hazardous or are below reportable limits.

#### 4 FIRST AID MEASURES

**Inhalation:** Not considered dangerous.

**Skin Contact:** Prolonged or repeated and confined exposure may cause skin irritation. Wash contaminated clothing and footwear before reuse.

**Eye Contact:** Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists consult medical personnel.

**Ingestion:** Swallowing may cause gastrointestinal irritation. If irritation persists consult medical personnel.

#### 5 FIRE FIGHTING MEASURES

**Flammability:** NOT FLAMMABLE

**EXTINGUISHING MEDIA:** Water

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

**SPECIAL FIRE FIGHTING PROCEDURES:** Self-contained breathing apparatus with a full face piece operated in a pressure demand or other positive pressure mode.

#### 6 ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Absorb liquid on paper, vermiculite, floor absorbent or other absorbent material and transfer to labeled containers.

**LARGE SPILL:** Stop spill at source, dike area of spill to prevent spreading, pump liquid into salvage tank. Remaining liquid may be taken up on sand, clay, floor absorbent or other absorbent material and shoveled into labeled containers.

**WASTE DISPOSAL METHOD:** Review Federal, Provincial and Local Government requirements prior to disposal.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Exercise care and caution. Store in cool dry place.

**OTHER PRECAUTIONS:** Containers of this material may be hazardous when emptied, since emptied containers retain product residues (vapor, liquid and/or solids), all hazard precautions given in the data sheet must be observed.

#### 7 HANDLING AND STORAGE

**Handling Precautions:** Keep material out of reach of children.

**Storage Requirements:** Store in cool/dry area.



### WinZyme

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** None

**Personal Protective Equipment:** HMIS PP, B | Safety Glasses, Gloves  
 RESPIRATORY PROTECTION: If TLV of the product or component is exceeded, a NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified condition.  
 Ventilation: Provide general or mechanical ventilation or local exhaust.  
 PROTECTIVE GLOVES: Use impermeable gloves to prevent skin contact. Use head caps, boots, chemical aprons when necessary.  
 EYE PROTECTION: Use safety eyewear designed to protect eyes against liquid splash and mists. Consult your safety equipment supplier.  
 OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Use protective clothing to prevent skin contact. Use head caps, boots, chemical aprons when necessary.  
 WORK/HYGIENIC PRACTICES: Eyewashes and safety showers in the workplace are recommended. Wash hands after using. Monitor exposure levels.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

<p><b>Appearance:</b> Amber</p> <p><b>Physical State:</b> Liquid</p> <p><b>Odor Threshold:</b> No data available</p> <p><b>Spec Grav./Density:</b> 1</p> <p><b>Viscosity:</b> No data available</p> <p><b>Boiling Point:</b> No data available</p> <p><b>Flammability:</b> None</p> <p><b>Partition Coefficient:</b> No data available</p> <p><b>Vapor Pressure:</b> No data available</p> <p><b>pH:</b> No data available</p> <p><b>Evap. Rate:</b> No data available</p> <p><b>Decomp Temp:</b> No data available</p>	<p><b>Odor:</b> Slight fermentation odor</p> <p><b>Solubility:</b> 100% in water</p> <p><b>Freezing/Melting Pt.:</b> No data available</p> <p><b>Flash Point:</b> No data available</p> <p><b>Vapor Density:</b> No data available</p> <p><b>Auto-Ignition Temp:</b> No data available</p> <p><b>UFL/LFL:</b> No data available</p>
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**10 STABILITY AND REACTIVITY**

**Reactivity:** Product is stable under normal conditions.

**Chemical Stability:** Product is stable under normal conditions.

**Conditions to Avoid:** N/A

**Materials to Avoid:** Strong Oxidizing Agents, Strong Alkalis, Acids.  
 Do not use in hot or boiling water, disinfectants, bleach, chlorinated products or high alkali. Use of these products before or during use will kill the bacteria and render this product ineffective.

**Hazardous Decomposition:** Not known.

**Hazardous Polymerization:** Will not occur.

**11 TOXICOLOGICAL INFORMATION**

Based on composition of 100% raw materials

**Benzenesulfonic acid, dimethyl-, sodium salt (1300-72-7):**  
 Information on toxicological effects  
**Acute toxicity:**  
 Oral LD50 LD50 Oral - rat - male and female - >= 7,200 mg/kg  
 Inhalation LC50 no data available  
 Dermal LD50 LD50 Dermal - rabbit - male and female - > 2,000 mg/kg  
**Other information on acute toxicity**  
 Skin corrosion/irritation: Skin - rabbit - No skin irritation - 24 h  
 Serious eye damage/eye irritation: Eyes - rabbit - Irritating to eyes.



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Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: Genotoxicity in vitro - Hamster - ovary - with and without metabolic activation - negative

**Carcinogenicity:**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System): no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

**Additional Information:**

Repeated dose toxicity - rat - male and female - Dermal - No observed adverse effect level - 763 - 3,534 mg/kg

Repeated dose toxicity - mouse - male - Oral - No observed adverse effect level -  $\geq$  440 mg/kg RTECS: ZE5100000

**1,2,3-Propanetricarboxylic acid, 2-hydroxy- (77-92-9):**

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 5,400 mg/kg (OECD Test Guideline 401)

Inhalation: no data available

LD50 Dermal - rat -  $>$  2,000 mg/kg (OECD Test Guideline 402)

Skin corrosion/irritation: Skin - rabbit Result: Mild skin irritation (OECD Test Guideline 404)

Serious eye damage/eye irritation: Eyes - rabbit Result: Irritating to eyes. (OECD Test Guideline 405)

Respiratory or skin sensitisation: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Germ cell mutagenicity: no data available

**Carcinogenicity:**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

**Additional Information:**

RTECS: GE7350000

Vomiting, Diarrhoea, Damage to tooth enamel., Dermatitis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Sodium hydroxide solution (1310-73-2):**

Information on toxicological effects

Acute toxicity: no data available

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation: Skin - rabbit Result: Causes severe burns. - 24 h

Serious eye damage/eye irritation: Eyes - rabbit Result: Corrosive - 24 h

Respiratory or skin sensitisation: Will not occur

Germ cell mutagenicity: no data available

**Carcinogenicity:**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available



**WinZyme**

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: WB4900000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

1,2-Benzisothiazol-3(2H)-one (2634-33-5):

Information on toxicological effects

Acute toxicity:

Oral LD50 LD50 Oral - rat - 1,020 mg/kg

Inhalation LC50 no data available

Dermal LD50

Other information on acute toxicity

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: May cause allergic skin reaction.

Germ cell mutagenicity: no data available

Carcinogenicity:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System): no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Ingestion Harmful if swallowed.

Skin Harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional Information:

RTECS: DE4620000

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**ECOLOGICAL INFORMATION**

Information on ecological effects:

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

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**DISPOSAL CONSIDERATIONS**

Waste Disposal Method: Review Federal, Provincial and Local Government requirements prior to disposal.

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**TRANSPORT INFORMATION**

Non-hazardous.



### WinZyme

#### 15 REGULATORY INFORMATION

Component (CAS#) - CODES

Benzenesulfonic acid, dimethyl-, sodium salt (1300-72-7) TSCA  
1,2,3-Propanetricarboxylic acid, 2-hydroxy- (77-92-9) TSCA  
Alcohols, C12-14, ethoxylated (68439-50-9) TSCA

SARA Title III chemicals: None

California Prop 65 chemicals: This product contains no chemicals known to the State of California to cause cancer or reproductive toxicity.

CERCLA reportable quantity: None

RCRA hazardous waste no: None

Regulatory CODE Descriptions

RQ = Reportable Quantity

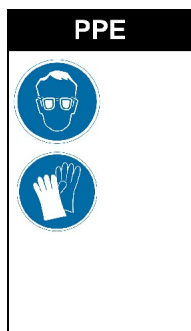
TSCA = Toxic Substances Control Act

#### 16 OTHER INFORMATION

HMIS III: Health = 1, Fire = 0, Physical Hazard = 0

HMIS PPE: B - Safety Glasses, Gloves

HMIS	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B



HMIS Index: 1-slight, 2-moderate, 3-serious, 4-severe

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ISSUE DATE: 05/13/15

REVISION DATE: 12/03/15

REVISIONS: section 4, 9, 11