



MATERIAL SAFETY DATA SHEET

HMIS:

Health- 1 Flammability- 0 Reactivity- 0 Pers. Protection- B

WHMIS: D 2 B

NFPA:

Health- 1 Flammability- 0 Reactivity- 0 Special Hazard- N

Section 1: Product and Company Identification

Product: ENZYME Powdered Certi-Zyme Synonyms: Certi-Zyme Powder

NILODOR, INC.

10966 INDUSTRIAL PARKWAY NW
BOLIVAR, OHIO 44612, USA

Non-Emergency:
US 800-443-4321

24 hr Emergency Spill Information:
Chem-Tel, Inc.

International 010-330-874-1017

US, Canada: 800-255-3924. International:
1-813-248-0584

Section 2. Hazards Identification

EMERGENCY OVERVIEW

Appearance/Odor: White/pale yellow powder, citrus aroma

NOT Classified as hazardous by the criteria of NOHSC.

WARNING

Flammability : Not classified as flammable

Health Hazards Listed : R 36: Irritating to eyes.

Ecological Hazards Listed : None known

Potential Health Effects: See section 11 for more information.

Likely Routes of Exposure: Eyes, mouth

Eye: Direct exposure can irritate

Skin: Prolonged or repeated exposure can irritate

Ingestion: Can cause digestive distress

Inhalation: Dust can irritate

Medical Conditions Aggravated By Exposure:

Allergies to fragrances

Target Organs: None known

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Environmental Effects: (See section 12 for more information.)

None known

Section 3. Composition/Information on Ingredients

Component	CAS#	% by Weight	WHMIS Controlled
Sodium Tripolyphosphate	7758-29-4	60 - 80	N
Non-ionic surfactant	68439-46-3	7 - 13	N

Sodium Borate	1303-96-4	5-10	Y
Sodium Metasilicate	6834-92-0	0.5 - 1.5	Y
Bacteria Culture	none	1 - 5	N

Section 4. First Aid Measures

Eye Contact:	Flush eye with copious amounts of clean water, holding lids open. If irritation persists get medical attention.
Skin Contact:	Wash with soap and water.
Inhalation:	Remove to fresh air.
Ingestion:	If conscious, give water or milk to drink. DO NOT INDUCE VOMITING.
Note to Physicians:	Product dissolves in water to form alkaline solution. Prolonged contact can severely irritate eyes and respiratory tract and can dry or irritate skin.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media:	Water, foam, carbon dioxide, dry chemical.
Unsuitable Extinguishing Media:	None known.
Products of Combustion:	Oxides of carbon, boron, nitrogen.
Protection of Firefighters:	Self-contained breathing apparatus if large quantities are involved.

Section 6. Accidental Release Measures

Personal Precautions:	Keep away from eyes and mouth. Avoid breathing dust.
Environmental Precautions:	Keep out of surface waters and sanitary sewers.
Methods for Containment:	Powder, not applicable. Solutions: dike area with sand, clay or other suitable material.
Methods for Clean-Up:	Sweep or shovel up powder for disposal. Absorb solutions on sand, clay or other suitable material.

Other Information:

Section 7. Handling and Storage

HANDLING

Do not open until ready to use.

STORAGE

Keep out of the reach of children. Store in original container at ambient conditions.

Section 8. Exposure Controls/Personal Protection

EXPOSURE GUIDELINES

COMPONENT:	TWA:	LD-50
Sodium Tripolyphosphate	Dust 10 mg/cubic meter	5400 mg/kg
Non-ionic surfactant	None established	2700 mg/kg
Sodium Borate	5 mg/cubic meter	>4500 mg/kg
Sodium Metasilicate	Dust 10 mg/cubic meter	> 1500 mg/kg
Bacteria Culture	None established	>500 mg/kg

Engineering Controls: Not normally necessary.

Eye/Face Protection: Protective goggles if handling large quantities.

Skin Protection: Rubber or other protective gloves if handling large quantities.

Respiratory Protection: Dust mask or particulates respirator recommended.

General Hygiene Considerations: Reasonable care. Keep away from food and beverages.

Section 9. Physical and Chemical Properties

Color: White to pale yellow

Odor: Citrus

Physical State: Powder
pH: 9 - 10, 2.25% solution
Evaporation Rate: Not applicable
Flash Point: Not applicable
Upper Flammability Limit: Not applicable
Vapor Pressure: Not determined
Vapor Density: Not determined
Volatile Organic Compound (VOC),%weight:
0.21%

Odor Treshhold:
Freezing Point: Not applicable
Boiling Point: Not applicable
Flammability(solid,gas): Non-flammable
Lower Flammabilty Limit: Not applicable
Specific Gravity: Bulk density approximately 0.8 g/mL,
tapped
Auto-ignition Temperature: Not applicable
Solubility (water): 2.25 %
Percent Volatile: Less than 20% including water of
crystallization

Section 10. Stability and Reactivity

Stability: Stable
Conditions to Avoid: High temperatures
Incompatable Materials: Strong acids
Hazardous Decomposition Products: None known
Possibility of Hazardous Reactions: Very improbable

Section 11. Toxicology Information

ACCUTE EFFECTS

Oral LD50: Not determined for mixture. Weighted average more than 3800 mg/kg
Dermal LD50: Weighted average more than 2500 mg/kg.
Inhalation: Weighted average more than 7 milligrams per Liter.
Eye Irritation: Direct contact can be severely irritating
Skin Irritation: Prolonged or repeated contact can dry or irritate skin.
Sensitization: None known

CHRONIC EFFECTS

Carcinogenicity: None known
Mutagenicity: None known
Reproductive Effects: None known
Developmental Effects: None known

Section 12. Ecological Information

Ecotoxicity: Not determined.
Persistence/Degradability: Biodegradable.
Bioaccumulation/Accumulation: Not determined.
Mobility in Enviroment: Not determined.

Section 13. Disposal Considerations

Disposal: Dispose according to Federal, State or Provincial, and Local regulations.

Section 14. Transportation Information

US DOT (ground)
Proper Shipping Description: Not a Hazardous Material
CANADA TDG (ground)
Proper Shipping Description: Not a Dangerous Good
ICAO (air)
Proper Shipping Description: Not a Dangerous Good

IMDG (water)

Proper Shipping Description: Not a Dangerous Good

Section 15. Regulatory Information

Global Inventories

TSCA: United States	Included
DSL: Canada	Included
ECL: Korea	Not-Known
PICCS: Philippines	Not-Known
ENCS: Japan	Not-Known
AICS: Australia	Included
IECS: China	Not-Known
EINECS: European Union	Included

SARA 313 Information : Does not contain any SARA 313 substances

California Safe Drinking Water and Toxic Enforcement Act of 1986 :(Proposition 65)

Does not contain any Proposition 65 substances

WHMIS: Canadian Workplace Hazardous Material Information System

D 2 B

Section 16. Other Information

Legends:

NFPA, HMIS:

0=Minimal Hazard, 1=Slight Hazard, 2=Moderate Hazard, 3=Severe Hazard, 4=Extreme Hazard

Prepared By: Technical Dept.

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