

# HEALTH & SAFETY DATA SHEET

(Key: > = Greater than; < = Less than)

## SECTION 1 - MATERIAL IDENTIFICATION & USE

Material Name: **ZYME ZAPPER - Code 421 & ODOR & STAIN REMOVER-Codes240-241**

Supplier: *Captain* PHAB Ltd.

Address: 613 Neal Drive  
Peterborough, Ontario  
K9J 6X7

Emergency Telephone #: 705 748-0436

Chemical Name: Molecular Weight:

Chemical Family: Trade Name/Synonyms: Liquid Enzyme Cleaner

Chemical Formula: Material Use:

## SECTION 2 - HAZARDOUS INGREDIENTS OF MATERIAL

<u>Hazardous Ingredients</u>	<u>Approximate Concentration %</u>	<u>C.A.S.N.A. or U.N. Numbers</u>	<u>"Exposure Limits"</u>	<u>LD50 / LC50 Specify Species &amp; Route</u>
Non-Ionic detergent	<2%	26027-38-3	Not Available	Not Available
1,2 Benisothiasolin-3-1	<1%	2534-33-5	"	"
Sodium Hydroxide	<1%	1310-73-2	"	"
Dipropylene Glycol	<1%	25265-71-8	"	"
Viable Bacterial Cultures	10%	25265-71-8	"	"
Liquid Northern-green Fragrance	1%	not available	"	"

## SECTION 3 - PHYSICAL DATA FOR MATERIAL

Physical State: liquid Specific Gravity: 1.0 Odour Threshold(ppm): Odour & Appearance: White opaque with minty fragrance  
Vapour Pressure (mm/Hg): Vapour Density (Air=1): Evaporation Rate: Boiling Point (°C): 100° Freezing Point (°C):  
Solubility in Water(20°C): % Volatile (by volume): pH: 7.5 - 8.5 Density (g/ml): Coefficient of water/oil distribution:

## SECTION 4 - FIRE AND EXPLOSION HAZARD OF MATERIAL

Flammability: No. Non-flammable water mixture.

Means of Extinction: Non-explosive.

Special Procedures:

Flash point(°C) & Method: Upper explosion limit(% by volume): Lower explosion limit (% by volume):  
Auto Ignition Temperature(°C): Flammability Classification: Hazardous Combustion Products:  
Chemical Sensitivity to Impact: Rate of Burning: Explosion Power: Sensitivity to Static Discharge:

## SECTION 5 - REACTIVITY DATA

Chemical Stability: Yes. Conditions:

Incompatibility to other substances: Yes Substances: Strong acids or alkalis may inactivate biological culture.

Reactivity and under what conditions: Non-reactive, No hazardous decomposition products.

Hazardous Decomposition Products:

**SECTION 6 - TOXICOLOGICAL PROPERTIES OF PRODUCT**

Route of Entry: Skin Contact: .X..... Skin Absorption:..... Eye Contact: X  
Inhalation Acute:..... Inhalation Chronic:..... Ingestion:

Effects of Acute Exposure to Product: NONE

Effects of Chronic Exposure to Product: NONE

LD50 of Product (Specify Species & Route):not available Sensitization to Product:

LC50 of Product (Specify Species): Exposure limits of Product:

Irritancy of Product: Skin feels slippery until dried. Eye contact causes tears. Synergistic materials:

Carcinogenicity:...../a..... Reproductive effects: Teralogenicity:..... Mutagenicity:.

**SECTION 7 - PREVENTIVE MEASURES**

Personal Protective Equipment: Engineering or administrative controls should be implemented.

Gloves: Rubber if desired Respiratory: Eye: Footwear:  
Clothing: ..Other:

Engineering Controls:

Leak & Spill Procedure: Dilute with water and flush to sewer.

Waste Disposal:

Handling Procedures & Equipment: Avoid eye contact.

Storage Requirements: Below 40°C. (105 F.) and above 0°C. (32 F.)

Special Shipping Information:

**SECTION 8 - FIRST AID MEASURES**

Skin: Thoroughly wash exposed area with soap and water. Remove contaminated clothing and clothing. Launder before reuse.

Eyes: Flush with water, lifting upper and lower lids occasionally, then get medical attention.

Inhalation:

Ingestion: Drink water or milk to dilute. Seek medical advice. to determine advisability of vomiting.

General advice:

**SECTION 9 - PREPARATION DATE OF M.S.D.S.**

Additional information/Comments:

Sources Used: Ingredient supplier M.S.D.S

Prepared by: Abe Kelly. Phone #: 705 748-0436 Fax #: 705 876-6467

Date: January 1 2006

Revision Date: December 1, 2006.