

# MATERIAL SAFETY DATA SHEET

CHEMCO INDUSTRIES, INC.  
5731 Manchester Ave., St. Louis, MO 63110



DATE OF ISSUE: January 05, 2014

GENERAL INFORMATION # : 314-647-1888  
EMERGENCY TELEPHONE # : (800) 854-4236

## I-PRODUCT IDENTIFICATION

### BIO-ZYME

PRODUCT CODE: 023D, O23E

CHEMICAL FORMULATION: NON-PATHOGENIC BACTERIAL CLEANER & DEODORIZER

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 0 FLAMMABILITY: 0 REACTIVITY: 0

HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

## II - HAZARDOUS INGREDIENTS

Hazardous Components (Specific Chemical Identity; Common Name (s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% optional
--	----------	-----------	--------------------------	------------

THIS PRODUCT IS NOT CONSIDERED TO BE A HAZARDOUS CHEMICAL AS DEFINED BY THE FEDERAL OSHA COMMUNICATION STANDARD 29 CFR.1200.

**Key:** PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling Level STEL: Short Term Exposure Limit  
N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No  
302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).  
355: SARA TITLE III/ List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).  
372: SARA TITLE III/ List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

## III - PHYSICAL DATA

BOILING POINT (°F): >212°F	MELTING POINT: N/A
VAPOR PRESSURE (mm Hg): N/E	SPECIFIC GRAVITY (WATER = 1): 1.01
VAPOR DENSITY (AIR = 1): >1.00	VOC CONTENT (% by weight): 0
SOLUBILITY IN WATER: 100%	EVAPORATION RATE (Butyl Acetate = 1): <1.00
APPEARANCE AND ODOR: CLEAR, BLUE LIQUID WITH MILD PLEASANT ODOR	pH: 7.5-8.5

## IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (°F): NON FLAMMABLE (TEST METHOD): UPPER: N/A LOWER: N/A  
FLAMMABLE LIMITS IN AIR (VOLUME %): N/A

EXTINGUISHING MEDIA: FOAM, DRY CHEMICAL, CO2, WATER

SPECIAL FIRE FIGHTING PROCEDURES: NONE REQUIRED

UNUSUAL FIRE AND EXPLOSION HAZARD: NONE

# MATERIAL SAFETY DATA SHEET

PRODUCT NAME: BIO ZYME

PRODUCT CODE: 023D, 023E

## V - REACTIVITY DATA

<b>STABILITY:</b>	STABLE
<b>INCOMPATIBILITY:</b>	DO NOT MIX PRODUCT WITH GERMICIDALS, BLEACHES, OR OXIDIZING AGENT.
<b>CONDITIONS TO AVOID:</b>	N/A
<b>HAZARDOUS DECOMPOSITION OR BYPRODUCTS:</b>	N/A
<b>HAZARDOUS POLYMERIZATION:</b>	WILL NOT OCCUR
<b>CONDITIONS TO AVOID:</b>	N/A

## VI - HEALTH AND HAZARD DATA

ROUTES OF ENTRY INHALATION: N/A SKIN CONTACT: EYE CONTACT: INGESTION:  
CARCINOGENICITY: NTP? IARC MONOGRAPHS? OSHA REGULATED?

### EFFECTS OF OVEREXPOSURE

**IF IN EYES:** IRRITATION OF EYES IF SPLASHED  
**IF ON SKIN:** MAY CAUSE SKIN IRRITATION IF SKIN IS BROKEN  
**IF SWALLOWED:** INGESTION WILL RESULT IN GASTROINTESTINAL IRRITATION  
**IF INHALED:** NO ADVERSE EFFECTS FROM INHALATION

### EMERGENCY AND FIRST AID PROCEDURES

**IF IN EYES:** FLUSH WITH CLEAR WATER, SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.  
**IF ON SKIN:** FLUSH WITH CLEAR WATER, SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.  
**IF SWALLOWED:** DO NOT INDUCE VOMITING, DRINK LARGE VOLUMES OF CLEAR WATER AND CONTACT PHYSICIAN.

**IF INHALED:** N/A

## VII - SPILL AND LEAK PROTECTION

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** KEEP UNNECESSARY PEOPLE AWAY. SPILLS ARE VERY SLIPPERY. DIKE AND CONTAIN WITH INERT ABSORBENT MATERIAL. COLLECT FOR DISPOSAL.

**WASTE DISPOSAL METHOD:** FLUSH ALL WASTE PRODUCT TO SEWERAS PER LOCAL MUNICIPAL LAWS.

## VIII - SPECIAL PROTECTION INFORMATION

**VENTILATION:** Local Exhaust: ADEQUATE  
Mechanical (General): ADEQUATE Special: N/A Other: N/A

**RESPIRATORY PROTECTION:** NONE REQUIRED

**PROTECTIVE GLOVES:** RUBBER TO PROTECT SKIN BREAKS

**EYE PROTECTION:** GOGGLES IF DESIRED

**OTHER PROTECTIVE EQUIPMENT:** NONE REQUIRED

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** KEEP PRODUCT OUT OF REACH OF CHILDREN. DO NOT STORE NEAR HEAT OR OPEN FLAME. KEEP CONTAINER SEALED WHEN NOT IN USE TO PREVENT CONTAMINATION.

**OTHER PRECAUTIONS:** PROTECT PRODUCT FROM FREEZING. DISPOSE OF EMPTY CONTAINER IN AN AUTHORIZED LANDFILL SITE.

### **WORK/ HYGIENIC:**

REVISION DATE: January 05, 2014

Prepared By: Dr. Yadav

DATE OF ISSUE: January 05, 2014

This information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Chemco Industries assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material such vendees or users assume all risks associated with the use of this material.