

BIO-ZYMATIC #2079101

Bio-Enzymatic Cleaner & Digester



Features:

- Multi-purpose
- Bioactive
- Permanently removes odors
- Provides continuous enzymatic cleaning
- Non-toxic, non-hazardous
- Contain no petroleum solvents, acids or caustics
- Single product for total bathroom cleaning



Description:

This product is Mother Nature's first assistant in helping to digest and degrade grease, oil, and fats in the entire waste system. This bio-enzymatic cleaner and digester contains a selection of specialized bacterial strains and chemical cleaners specifically designed to make your toilets, sinks, showers, and pipelines sparkle like they never have before, while enhancing and maintaining the efficient operation of sewage treatment systems. BIO-ZYMATIC extends cleaning time as the active bacteria multiplies to reduce organic matter, grease and food byproducts. It is also safe on surfaces that are unaffected by water.

Applications:

- Toilets
- Sinks
- Bathtubs
- Showers
- Drains
- Down Pipes
- Septic Tanks
- Holding Tanks
- Chrome
- Stainless Steel
- Grout/ Concrete
- Plastic
- Carpet/Upholstery
- Countertops
- Porcelain
- Painted Surfaces

Product Characteristics:

| | |
|-------------------------------|---|
| Appearance: | Opaque |
| Physical State: | Liquid |
| Color: | White |
| Odor: | Fresh |
| Boiling Point/Range: | ~ 100°C / ~212°F |
| Vapor Pressure: | Not determined |
| Specific Gravity: | 1.01 |
| Water Solubility: | Completely soluble (@ 25°C (77°F)) |
| Flash Point: | Not applicable (Tag Open Cup) |
| pH: | 7.0-7.5 |
| Melting/Freezing Point: | ~ 0°C / ~32°F |
| Storage: | Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing. |
| Transport Information: | |
| UN Number: | Not regulated. |
| Proper Shipping Name: | Not regulated. |
| Class: | Not regulated. |
| Packing Group: | Not regulated. |

Directions:

DEODORIZER: Physically remove as much of the source of the malodor as possible. Follow this by applying product directly on the source of odor with a sprayer or cloth moistened with this product.

DRAIN LINES AND DOWN PIPES: Daily use in shower, sink, and tub drains will keep pipes free and clear of grease, fats, and other solid waste. Use product 2 - 4 times weekly. Add just 2 oz. of product for each inch of pipe diameter. **Example:** 1" pipe = 2 oz. product, 4" pipe = 8 oz. product, etc. Regular use will not damage pipes or chrome.

SEPTIC TANKS: Add 1 quart for initial treatment. Then use 8 oz. of product per week by flushing down toilet.

BOAT AND RECREATIONAL VEHICLES: Add 2 oz. of product per gallon of water in holding tank. Then use one pint per week for maintenance.

TOILETS/URINALS: Spray up under the rim. Allow to slide down the sides. Agitate with a brush or sponge. Let sit for several minutes and flush.

HARD SURFACES: Spray on. Work with brush, cloth or sponge. Rinse if desired. Air dry.

CARPET/UPHOLSTERY: Test area before use. Spray over spot and work in with a soft-bristled brush. Repeat if needed. Absorb excess. Let dry, then brush lightly or vacuum. NOTE: Excessive

***Do not use with bleach or disinfectants.**

Pictograms:

None.

DOT Placard:

Not regulated.

Signal Word:

Not available.

VOC Compliancy:

Not available.

Personal Protective Equipment Required:

None.

SAFETY DATA SHEET

1. Product and Company Identification

| | | | |
|-----------------------------|---|-----------------------------|----------------|
| PRODUCT NUMBER: | 2079101 | COMPANY PHONE: | 1-800-241-8180 |
| PRODUCT NAME: | BIO-ZYMATIC | EMERGENCY TELEPHONE: | 1-800-535-5053 |
| PRODUCT DESCRIPTION: | Bio-Enzymatic Cleaner & Digester | INFOTRAC: | 1-800-535-5053 |
| COMPANY INFORMATION: | PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004 | | |

2. Hazards Identification

| | | | | |
|--|---------------------------------------|----------------|--|--|
| CLASSIFICATION: This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product. | SIGNAL WORD: Not available. | SYMBOL: | | |
| Emergency Overview: Contains non-pathogenic bacterial spores. Appearance: White Physical State: Liquid Odor: Fresh | | | | |

3. Composition / Information on Ingredients

| Chemical Name | CAS | Concentration % by Weight |
|-----------------------------------|------------|---------------------------|
| Water | 7732-18-5 | 60-100 |
| Alcohols, C9-11 ethoxylated | 68439-46-3 | 1-5 |
| Diethylene Glycol Monobutyl Ether | 112-34-5 | 1-5 |
| Sodium Xylene Sulfonate | 1300-72-7 | 1-5 |

Contains 1-5% non-pathogenic bacterial spores.

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First Aid Measures

EMERGENCY OVERVIEW

EYES: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

SKIN: If skin irritation occurs, rinse affected area with water.

INHALATION:

No known hazardous effects. If symptoms occur, remove to fresh air.

INGESTION:

Drink plenty of water. If any discomfort persists, obtain medical attention.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

Prolonged contact may cause painful stinging or burning of eyes and lids, watering of eye, and irritation. Prolonged or repeated skin contact may cause irritation.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Notes to Physician: Treat symptomatically.

5. Fire-Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

Water spray (fog). Carbon dioxide (CO₂). Dry chemical. Foam.

UNSUITABLE FIRE EXTINGUISHING MEDIA:

Not determined.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

None known.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

Use personal protective equipment as required.

ENVIRONMENTAL PRECAUTIONS:

Avoid release to the environment.

METHODS & MATERIALS FOR CONTAINMENT & CLEANUP:

Methods for Containment: Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up: Collect spillage. Collect in a clean, dry waste container for disposal. After cleaning, flush away traces with water.

7. Handling and Storage

SAFE HANDLING:

Avoid contact with eyes. Observe good industrial hygiene practices.

SAFE STORAGE & INCOMPATIBILITIES:

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.

Incompatible Materials: None known.

8. Exposure Controls / Personal Protection

EXPOSURE GUIDELINES:

No exposure limits noted for ingredient(s).

PERSONAL PROTECTIVE EQUIPMENT:

Eye/Face Protection: No protective equipment is needed under normal use conditions.

Skin/Face Protection: No protective equipment is needed under normal use conditions.

Respiratory Protection: No protective equipment is needed under normal use conditions.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

APPROPRIATE ENGINEERING CONTROLS:

Ventilation systems.

9. Physical & Chemical Properties

| | | | |
|--------------------------------|-------------------------------|--------------------------------------|------------------------------------|
| Appearance: | Opaque | Flammability(solid/gas): | n/a-liquid |
| Physical State: | Liquid | Flammability Limit-lower (%): | Not determined |
| Color: | White | Flammability Limit-upper (%): | Not determined |
| Odor: | Fresh | Vapor Density: | Not determined |
| Odor Threshold: | Not determined | Vapor Pressure: | Not determined |
| pH: | 7.0-7.5 | Solubility (water): | Completely soluble (@ 25°C (77°F)) |
| Melting/Freezing Point: | ~ 0°C / ~32°F | Solubility in other Solvents: | Not determined |
| Boiling Point/Range: | ~ 100°C / ~212°F | Auto-Ignition Temp: | Not determined |
| Kinematic Viscosity: | Not determined | Decomposition Temp: | Not determined |
| Dynamic Viscosity: | Not determined | Partition Coefficient: | Not determined |
| Flash Point: | Not applicable (Tag Open Cup) | Explosive Properties: | Not determined |
| Specific Gravity: | 1.01 | Oxidizing Properties: | Not determined |
| Evaporation Rate: | Not determined | | |

10. Stability & Reactivity Information

REACTIVITY:

Not reactive under normal conditions.

CHEMICAL STABILITY:

Stable under recommended storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:

None under normal processing.

CONDITIONS TO AVOID:

Keep out of reach of children. Keep from freezing.

INCOMPATIBLE MATERIALS:

None known.

HAZARDOUS DECOMPOSITION PRODUCTS:

When exposed to fire, produces normal products of combustion.

11. Toxicological Information

INFORMATION ON LIKELY ROUTES OF EXPOSURE:

Inhalation: Avoid breathing vapors or mists.

Skin Contact: Avoid contact with skin.

Eye Contact: Avoid contact with eyes.

Ingestion: Do not taste or swallow.

COMPONENT INFORMATION:

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|----------------------|-------------------------|-----------------|
| Alcohols, C9-11 ethoxylated 68439-46-3 | = 1378 mg/kg (Rat) | 2 g/kg (Rabbit) | - |
| Diethylene Glycol Monobutyl Ether 112-34-5 | = 3384 mg/kg (Rat) | = 2700 mg/kg (Rabbit) | - |
| Sodium Xylene Sulfonate 1300-72-7 | = 7200 mg/kg (Rat) | - | - |

INFORMATION ON PHYSICAL, CHEMICAL AND TOXICOLOGICAL EFFECTS

Symptoms: Please see Section 4 of this SDS for symptoms.

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE

CARCINOGENICITY:

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

NUMERICAL MEASURES OF TOXICITY:

Not determined.

12. Ecological Information**ECOTOXICITY:**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

| Chemical Name | Algae/Aquatic Plants | Fish | Toxicity to Microorganisms | Crustacea |
|--|--|---|----------------------------|--|
| Diethylene Glycol Monobutyl Ether 112-34-5 | 100: 96 h Desmodemus subspicatus mg/L EC50 | 1300: 96 h Lepomis macrochirus mg/L LC50 static | - | 2850: 24 h Daphnia magna mg/L EC50 100: 48 h Daphnia magna mg/L EC50 |

PERSISTENCE AND DEGRADABILITY:

Not determined.

BIOACCUMULATIVE POTENTIAL:

Not determined.

MOBILITY IN SOIL:

Not determined.

OTHER ADVERSE EFFECTS:

Not determined.

13. Disposal Consideration**DISPOSAL INSTRUCTIONS:**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

CONTAMINATED PACKAGING:

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. Transportation Information

DOT: Not regulated.

IATA: Not regulated.

IMDG: Not regulated.

15. Regulatory Information**INTERNATIONAL INVENTORIES:**

Not determined.

US. FEDERAL REGULATIONS:

SARA 311/312 Hazard Categories

ACUTE HEALTH HAZARD: Yes

SARA 313

| Chemical Name | CAS No | Weight % | SARA 313 - Threshold Values % |
|-----------------------------------|----------|----------|-------------------------------|
| Diethylene Glycol Monobutyl Ether | 112-34-5 | 1-5 | 1.0 |

US. STATE REGULATIONS**U.S. State Right-to-Know Regulations:**

The following ingredients appear on various state right to know lists and/or California's Proposition 65 List:

| Chemical Name | State List |
|--|------------|
| Diethylene Glycol Monobutyl Ether 112-34-5 | NJ & PA |

AZ- Arizona Ambient Air Quality Guidelines

CT- Connecticut Hazardous Air Pollutants

CA- California Director's List of Hazardous Substances CAP65- California Prop65

FL- Florida Substances List

ID- Idaho Non-Carcinogen Toxic Air Pollutants

IL- Illinois Toxic Air Contaminate- Carcinogenic MA- Massachusetts Right to Know List

MN- Minnesota Hazardous Substances List NJ- New Jersey Right to Know List

PA- Pennsylvania Right to Know List

RI- Rhode Island Hazardous Substances List

16. Other Information**DISCLAIMER:**

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.

DESCRIPTION

This product is Mother Nature's first assistant in helping to digest and degrade grease, oil, and fats in the entire waste system. This bioenzymatic cleaner and digester contains a selection of specialized bacterial strains and chemical cleaners specifically designed to make your toilets, sinks, showers, and pipelines sparkle like they never have before, while enhancing and maintaining the efficient operation of sewage treatment systems.

DIRECTIONS

DEODORIZER: Physically remove as much of the source of the malodor as possible. Follow this by applying product directly on the source of odor with a sprayer or cloth moistened with this product.

DRAIN LINES AND DOWN PIPES: Daily use in shower, sink, and tub drains will keep pipes free and clear of grease, fats, and other solid waste. Use product 2 - 4 times weekly. Add just 2 oz. of product for each inch of pipe diameter. **Example:** 1" pipe = 2 oz. product, 4" pipe = 8 oz. product, etc. Regular use will not damage pipes or chrome.

SEPTIC TANKS: Add 1 quart for initial treatment. Then use 8 oz. of product per week by flushing down toilet.

BOAT AND RECREATIONAL VEHICLES: Add 2 oz. of product per gallon of water in holding tank. Then use one pint per week for maintenance.

INSTRUCCIONES

DESODORIZANTE: Remueva físicamente todo lo que está causando el mal olor. Prosigua con trapear directamente el área a tratar con un trapo empapado con el producto.

LÍNEAS DE DRENAJE Y TUBERÍAS: El uso diario en duchas, lavaderos, y líneas de drenaje mantendrá a las tuberías libres de grasa, aceites y cualquier otro agente similar. Use el producto de 2 - 4 veces por semana. Añada sólo 2 oz. del producto por cada pulgada de espesor de la tubería. **Ejemplo:** Tubería de 1 pulgada = 2 oz. del producto. El uso frecuente de este producto no daña las tuberías o el cromo.

TANQUES SÉPTICOS: Añada un cuarto de galón del producto como tratamiento inicial. Luego, añada en el agua de la tasa 8 oz. del producto por semana y tire de la cadena.

BOTES Y VEHÍCULOS RECREACIONALES: Añada 2 oz. del producto por cada galón de agua. Luego utilice una pinta por semana para mantener la limpieza. Para mantener limpios los imbornales delbote, use este producto diariamente.

Made in USA • Hecho en EEUU

CONTAINS: Alcohols, C9-11 ethoxylated, Diethylene Glycol Monobutyl Ether, Sodium Xylene Sulfonate, Linalool, Citral, Limonene, Benzyl Benzoate, Butylphenyl, and Geraniol.



BIO-ZYMATIC

Cleans & Deodorizes • Fresh Scent

For Industrial And Institutional Use Only
See SDS For Complete Safety Information

NET CONTENTS: One U.S. Quart (32 Fl. Oz.)

FIRST AID

IF IN EYES: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice / attention. **IF ON SKIN:** If skin irritation occurs, rinse affected area with water. **IF INHALED:** No known hazardous effects. If symptoms occur, remove to fresh air. **IN CASE OF INGESTION:** Drink plenty of water. If any discomfort persists, obtain medical attention.

KEEP OUT OF REACH OF CHILDREN.

*For additional information, see
Safety Data Sheet (SDS) for this material.*

PRIMERO AUXILIOS

CONTACTO CON LOS OJOS: Aclarar inmediatamente con con abundancia de agua, también debajo de los párpados, por lo menos durante 15 minutos. Si persiste la irritación ocular, acudir al médico. **CONTACTO CON LA PIEL:** En caso de irritación cutánea, aclararse la piel con agua. **INHALACIÓN:** No existen efectos peligrosos conocidos. Si ocurren síntomas, vaya a un lugar con aire fresco. **INGESTIÓN:** Después beber agua abundante. Si las molestias persisten, acudir al médico.

MANTÉNGASE FUERA DEL ALCANCE DE LOS NIÑOS.

*Para información adicional, ver la Hoja de
Seguridad de Datos (SDS) para este material.*

2079101



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