

## Material Safety Data Sheet

**Product : CLENZYME**

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / UNDERTAKING

**Manufacturer :**  
BIOSHIELDS  
A Division of Coral Clinical Systems  
Bldg. "C", M – 46, Phase III B,  
Verna Industrial Estate, Verna – Goa.  
403 722, INDIA.

**Product name :** CLENZYME  
**Synonyms :** Enzymatic Cleaner.

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

The ingredients at their given percentages in this product are not considered hazardous to your health.

| Components                      | Weight %    |
|---------------------------------|-------------|
| Protease 1                      | 2.50 – 6.50 |
| Protease 2                      | 2.50 – 6.50 |
| Amylase                         | 2.25 – 5.75 |
| Lipase                          | 0.05 – 1.05 |
| Stabilisers & Other Ingredients | Q. S.       |
| De – Mineralised Water          | Q. S.       |

### 3. HAZARDS IDENTIFICATION

**Emergency overview :** May cause eye, skin and respiratory irritation. May elicit an allergic reaction.

**Properties affecting health :** May cause sensitization by repeated skin contact.

**Principle routes of exposure :**

**Oral :** Not anticipated to be a significant route of occupational exposure.

**Eye contact :** May cause eye irritation and redness.

**Skin contact :** May cause skin irritation. Repeated exposure may cause skin dryness or cracking.

**Ingestion :** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Inhalation :** May cause irritation, including but not limited to discharge, coughing, wheezing tightness of chest and throat, difficulty breathing and stinging sensation in nose and throat. Symptoms are temporary and reversible.

**Physico – chemical properties :** No hazards resulting from material as supplied.

**Hazard information :**

**Sensitization :** May cause sensitization.

### 4. FIRST AID MEASURES

**Eye contact :** In the case of contact with eyes, rinse immediately with plenty of water for 15 minutes and seek medical attention.

**Ingestion :** Do not induce vomiting. Clean mouth with water, drink plenty of water and seek medical attention.

**Inhalation :** Move to fresh air immediately. If experiencing difficulty breathing, seek medical attention.



**Skin contact** : Wash contaminated areas thoroughly with soap and water. Remove contaminated clothing and wash before re – use. Get medical attention if irritation develops or persists.

**Protection of first-aiders** : None.

## 5. FIRE – FIGHTING MEASURES

**Flash point (°F)** : Not applicable.

**Flash point (°C)** : Not applicable.

**Autoignition temperature** : Not applicable.

**Flammable limits in air - lower (%)** : Not applicable.

**Fire fighting information** :

**Suitable extinguishing media** : Use any extinguishing agent which is suitable for the surrounding fire.

**Extinguishing media which must not be used for safety reasons** : None.

**Specific methods** : None.

**Special protective equipment for firefighters** : Wear self - contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products** : None.

**Explosivity** : None.

**Explosion limits** :

**Lower** : None.

**Upper** : None.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** : Wear eye and skin protection while handling material for clean up. Avoid breathing vapours and/or mists.

**Environmental precautions** : Do not wash down sewers or waterways.

## 7. HANDLING AND STORAGE

### Handling :

**Technical measures/precautions** : Use only in area provided with appropriate exhaust ventilation, a minimum of 10 air exchanges per hour.

**Safe handling advice** : Wear appropriate personal protection. Avoid contact with skin, eyes and clothing. Remove contaminated clothing and launder before reuse.

### Storage :

**Technical measures/storage conditions** : This product should be stored between 59 °F (15 °C) and 86 °F(30 °C).

**Incompatible products** : Avoid contact with strong acids and bases.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering controls** : Ensure adequate ventilation, a minimum of 10 air exchanges per hour.

**Eye protection** : Eye protection recommended during production of product. Goggles are recommended.

**Hand protection** : Protective gloves recommended when manufacturing product. PVC or other plastic material gloves. Nitrile rubber gloves.

**Skin and body protection** : Wear suitable protective clothing.

**Respiratory protection** : None required.

**Other/general protection** : None required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                          |                              |
|--------------------------|------------------------------|
| <b>Appearance</b>        | : Clear liquid.              |
| <b>Physical state</b>    | : Liquid.                    |
| <b>Colour</b>            | : Pale Brown.                |
| <b>pH</b>                | : 6.0 – 7.0                  |
| <b>Odor</b>              | : Characteristic.            |
| <b>Water miscibility</b> | : Miscible (Clear Solution). |

## 10. STABILITY AND REACTIVITY

|   |  |
|---|--|
| <b>Chemical stability</b>               | : Stable under recommended storage conditions.                           |
| <b>Hazard polymerization</b>            | : Hazardous polymerization does not occur.                               |
| <b>Hazardous decomposition products</b> | : Unknown on product.  |
| <b>Materials to avoid</b>               | : Strong acids and strong bases. Stay away from strong oxidizing agents. |
| <b>Conditions to avoid</b>              | : Extremes of temperature and direct sunlight.                           |

## 11. TOXICOLOGICAL INFORMATION

### Local effects

|                        |                              |
|------------------------|------------------------------|
| <b>Oral</b>            | : Non – toxic.               |
| <b>Eye irritation</b>  | : May cause eye irritation.  |
| <b>Skin irritation</b> | : May cause skin irritation. |
| <b>Inhalation</b>      | : Unknown on product.        |

### Chronic toxicity

|                   |                       |
|-------------------|-----------------------|
| <b>Oral</b>       | : Unknown on product. |
| <b>Inhalation</b> | : Unknown on product. |
| <b>Dermal</b>     | : Unknown on product. |

### Specific effects

|                             |                                    |
|-----------------------------|------------------------------------|
| <b>Corrosive effects</b>    | : Not corrosive.                   |
| <b>Sensitization</b>        | : May elicit an allergic reaction. |
| <b>Target organ effects</b> | : Eyes.                            |
| <b>Reproductive effects</b> | : Unknown on product               |
| <b>Carcinogenic effects</b> | : Unknown on product.              |

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

|                                    |  |
|------------------------------------|--|
| <b>Ecotoxicity effects</b>         | : This product has no known eco – toxicological effects.   |
| <b>Aquatic toxicity effects</b>    | : This product has no known aquatic toxicological effects. |
| <b>Mobility</b>                    | : Unknown on product.                                      |
| <b>Persistence / degradability</b> | : Unknown on product.                                      |
| <b>Bioaccumulation</b>             | : Unknown on product.                                      |
| <b>Degradation</b>                 | : Unknown on product.                                      |

## 13. DISPOSAL CONSIDERATIONS

|  |  |
|--|--|
| <b>Waste from residues / unused products</b> | : This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. |
| <b>Contaminated packaging</b>                | : Do not re – use empty containers.  |

**14. TRANSPORT INFORMATION**

**DOT** : Not Applicable  
**IATA/ICAO** : Not Applicable

**15. REGULATORY INFORMATION**

**CAS No.** : Not applicable.  
**Labeling** : For External Use Only.  
**Safety Phrases** : Avoid contact with the mucous membrane. In case of contact, wash immediately with plenty of water and seek medical attention.

**16. OTHER INFORMATION**

**Additional advice** : None  
**Literary Reference** : None

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**End of Safety Data Sheet**