



Material Safety Data Sheet

Product : CLENZYME

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

Manufacturer :

BioShields - A Division of Tulip Diagnostics Pvt. Ltd.

Plot No. 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.

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- 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

Appearance	: Clear liquid.
Physical state	: Liquid.
Colour	: Pale Brown.
pH	: 6.0 – 7.0
Odor	: Characteristic.
Water miscibility	: Miscible (Clear Solution).

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Local effects

Oral	: Non – toxic.
Eye irritation	: May cause eye irritation.
Skin irritation	: May cause skin irritation.
Inhalation	: Unknown on product.

Chronic toxicity

Oral	: Unknown on product.
Inhalation	: Unknown on product.
Dermal	: Unknown on product.

Specific effects

Corrosive effects	: Not corrosive.
Sensitization	: May elicit an allergic reaction.
Target organ effects	: Eyes.
Reproductive effects	: Unknown on product
Carcinogenic effects	: Unknown on product.

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products	: 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.
Contaminated packaging	: 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