

Material Safety Data Sheet

Product Name : TRIDEZYME PLUS

MSDS No. : MSDS/FZDT18/01

Version No.: 01

Effective Date: 19/11/2012

Ref. SOP: SOP/QA/020/02

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1. Identity of Material

Product Name	Enzymatic Detergent	
Trade Name	TRIDEZYME PLUS	
Formula	Label: Proteolytic enzymes Category: A Presoak plus cleaner Class : Not available CAS Number: Not assigned for the product	UN Number: Not available
Regulated Identification	Shipping Name: Not available Codes/ Label: Flammable liquid / 1	HAZCHEM CODE: Not available
	Hazardous Waste: Not available Identification Number: Not available	
Sr.No.	Ingredients	CAS Number
1.	Bacterial Protease	9014-01-1
2.	Bacterial Amylase	9000-85-5

2. Physical and Chemical Properties

Physical State: Liquid	Boiling point in degree C: 100 – 105° C	Vapour Pressure of 33 degree c mm hg: Not available
Appearance: Blue coloured viscous solution with specific odour	Melting/Freezing Point in degree C: Not available	Evaporation rate at 30 degree C: Not available
Other Corrosivity: Not available	Specific Gravity: 1.007	pH: 8.0 to 9.0

3. Fire and Explosive Hazard Data

Explosion/ Flammability: Not available	Flash point (deg.) Flash point (deg.): >93°C	LEL: Not available	Auto ignition Temperature degree C: Not available
		UEL: Not available	TDG Flammability (classification): Not available

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4. Reactivity Hazards

	IMPACT: Not available	Hazardous Combustion Products: Not available
Stability : The product is stable under recommended storage conditions	Static Discharge: Not available	Hazardous Decomposition Products: Nitrous oxides and ammonitic vapours
	Reactivity: Not available	Conditions to avoid: Temperature above 40°C
Hazardous Polymerisation	Will not occur	
Compatibility	Avoid contact with strong oxidizing agents	

5. Health Hazard Data

Routes of Entry: Inhalation, skin, eye contact and ingestion

Effects of Exposure/symptoms: Ingestion can cause gastrointestinal irritation, nausea or diarrhea. Inhalation may cause hay fever type symptoms from dried enzymes.

LD 50 (in rat) : Not available

Permissible Exposure ppm mg/cu.m: Not available	Short term Exposure Limit (STEL): Not available
Odour Threshold Limit pp mg/ cu.m: Not available	
Value (TI .V) of Aogih: Not available	
Emergency Treatment: Ingestion :	Do not induce vomiting. If ingested, seek medical attention immediately.
Inhalation:	Move to fresh air immediately. If experiencing difficulty breathing, seek medical attention.
Skin:	If the product should cause skin irritation or sensitization, contact a physician immediately.
Eyes:	In the case of contact with eyes, rinse immediately with plenty of water for 15 minutes and seek medical attention.

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6. Hazard Specification

NFPA Hazard signal	Health	Flammability	Reactivity	Special
Known hazards	2	1	0	-
Combustible Liquid Flammable Material	-	-		-
Prophoric Material	-	-	-	-
Explosive Material	-	-	-	-
Unstable Material	-	-	-	-

7. Safe Usage Data

Ventilation	General Local Exhaust
Equipment Required	Eyes: Safety glasses with side - shields Respiratory: Wear dust or mist respirator if material is aerosolized. Gloves: Wear impervious gloves Clothing: Protective
Precautions	Handling: Technical measures/precautions: Ensure adequate ventilation. Avoid dust formation. Wear eye and skin protection while handling material for clean-up. Wear dust or mist respirator if material is aerosolized. Storage: Store at 59-86°F (15-30°C).

8. Emergency Response Data

Equipment required	Fire Extinguish Media: Dry Chemical, carbon dioxide, water fog.
	Special Procedures: Wear self-contained breathing apparatus for fire fighting if necessary.
	Unusual Hazards: Not available
Exposure (Inhalation, skin, and eye contacts ingestion)	First Aid Measure: Ingestion : Do not induce vomiting. If ingested, seek medical attention immediately. Inhalation: Move to fresh air immediately. If experiencing difficulty breathing, seek medical attention. Skin: If the product should cause skin irritation or sensitization, contact a physician immediately. Eyes: In the case of contact with eyes, rinse immediately with plenty of water for 15 minutes and seek medical attention.
Spills	Steps to be taken: Absorb spill with dry absorbent. Wash with soap and water. Dispose off in accordance with all local, state and federal regulations. Product is biodegradable.

Torrel Cos. Pvt. Ltd.

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9. Additional Information

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10. Additional Information

References:

- MSDS format as per Gujarat factories rules, 1963, Schedule-5, Rule 68-J.
- www.Hazard.com, www.sciencelab.com.
- Fire & Explosion hazards handbook of industrial chemicals.

11. Manufactures Data

Firms Name: TORREL COS. PVT. LTD.

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