



*Aum Enzymes*  
India's #1 Speciality Enzyme Products

**CLEANZYME-A**  
**Specialty Amylase**

**BENEFITS**

Enzymes are ecofriendly and biodegradable  
 Enzyme based detergents are more efficient  
 Enzyme based detergents are non corrosives, safe, cost effective.  
 High activity and stability in alkaline pH range  
 Broad substrate specificity  
 Compatibility with oxidizing agents  
 Compatibility with chelating agents  
 Compatibility with surfactant

**DESCRIPTION**

Cleanzyme-A is amylase enzymes preparation produced by a selected strain of *Bacillus spp.* to be used in household laundry, dishwashing, industrial and institutional laundry detergent industry. Cleanzyme-A is high performance enzyme for detergent industry

It removes starch based foods like potatoes, spaghetti, custards, gravies, and chocolates. Amylase present in Cleanzyme-A will randomly hydrolyse starch derivatives into soluble dextrin and oligosaccharide which are easily dispersed or dissolve in the washing liquor.

**PRODUCT SPECIFICATION:**

Parameters	Optimal range	Operational range
Temperature	30°C to 65°C	30°C to 70°C
pH	8.0 to 11.0	<b>7.00 to 12.00</b>
<b>Physical form</b>	<b>Liquid &amp; Granule</b>	
Enzymes types	Alkaline amylase	
Microbial source	<i>Bacillus species</i>	

**PAKAGING:**

Enzymes products are available in 25 kilogram in jerry can for liquid products & HDPE fiber drum for Granule products. Special packaging is also available on request.

**SAFETY**

The product is produced under hygienic condition and is subject to stringent quality control

Toxicology

The product produced by GRAS microorganism and is classified as non toxic.

Biodegradability

Product is Biodegradable.

Handling precaution

Enzymes are proteins and inhalation of dust or aerosols may induce sensitization and may cause allergic reactions in sensitized individuals. Some enzymes may irritate the skin, eyes and mucous membranes upon prolonged contact.

Liquid enzyme products may create inhalable aerosols if splashed or vigorously stirred. Spilled product material should therefore be flushed away with water.

**STORAGE:**

Enzyme products should be stored in a cool dry place. When stored below 35°C products will maintain its declared activity for at least 24 months. The enzyme preparation should not be left in direct sunlight for extended periods. Liquid preparation should not be frozen.

**REGULATORY INFORMATION:**

EEC Classification

In concentration form, the liquid enzymes products are classified as “sensitizers by inhalation” under the terms of EEC directive 88/379.

**TECHNICAL DATASHEET  
[FOR CLEANZYME-A]**

There are many factors that influence activity of Cleanzyme-A

- [1]Types of detergents and dosage
- [2]Moisture content of detergent
- [3] pH of detergent solution
- [4]Ionic strength of the detergent solution
- [5] Washing temperature
- [6]Mechanical Handling
- [7]Water hardness
- [8] Level of soiling
- [9]Type of textile

Below mention general guideline for dosage of Cleanzyme-A

Product	Dosage[%]
House hold detergent	0.1-0.3
Liquid detergent	0.2-0.4 %
Heavy duty detergent	0.8-1.0 %
Dishwashing detergent	2.5 %
Industrial detergent	3-5 %

**TECHNICAL SERVICE:**

AumEnzymes technical service laboratory shall be pleased to provide more information covering specific applications for all products or discuss any practical problem which many occur in the industry.

Technical datasheet given with each product are only given as usage guidelines, but tests should be carried out under local conditions to fix the optimum dosage for the machine type and conditions.

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