



# PISCEAN CENTURY CHEMICALS PTE LTD

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PEROZYME K8 / 10-2007

## PEROZYME K8

**PEROZYME K8** is a specially designed, industrial use high active catalase liquid preparation intended for use in the dyehouses to neutralize peroxides immediately after fabrics souring/semi-bleach processes before dyeing with reactive dyestuff.

The use of **PEROZYME K8** against the traditional use of reducing chemicals will result in:

- Time savings
- Cost savings
- Energy savings
- Minimizing waste water problems

**PEROZYME K8** is a concentrated preparation which is to be diluted at least 10 times before application.

### Comparative process; scouring before dyeing :

Cotton, Cellulosic materials semi-bleached: 3~6g/L H<sub>2</sub>O<sub>2</sub> (50%), 2g/L NaOH, approximate residual Peroxide content immediately after bleach 800ppm~1000ppm:-

### Treatments done before reactive dyeing:-

1. By Continuous Rinses	2. By Reducing Chemicals	3. By <b>PEROZYME K8</b> Treatment
A) Rinse #1(warm), residual Peroxides ^250ppm	A) Rinse #1(warm), residual Peroxides ^250ppm	A) Rinse #1(warm), residual Peroxides ^250ppm
B) Rinse #2(warm), residual Peroxides ^70ppm	B) Rinse #2(cold), residual Peroxides ^70ppm	B) Add Acetic Acid, pH 6 - 8 (Neutral), then add 0.0005 - 0.01g/L diluted <b>PEROZYME K8</b> , run 10 ~ 20 mins. Start dyeing.
C) Rinse #3(cold), residual Peroxides ^20ppm	C) Add Reducing Chemicals 40°C x 15-20'	
D) Rinse #4(cold), residual Peroxides ± 10ppm	D) Rinse	
E) Rinse #5(cold), residual Peroxides ± 2-5ppm	E) Rinse	

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SS ISO 9001: 2000



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*Piscean Century Chemicals Pte Ltd does not take liability to the effectiveness of the products since users application conditions may be different.*



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PEROZYME K8 / 10-2007

F) Start dyeing	F) Start dyeing	
5 Rinse baths	5 Rinse baths	1 Rinse bath

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The correct dosage and use of **PEROZYME K8** will completely neutralize hydrogen peroxides in the water bath without the use of harmful and unstable reducing chemicals prior to the dyeing with dyes that may otherwise be hydrolysed with residual hydrogen peroxides.

**PEROZYME K8** does not stain fabrics or react with dyestuff. It is a water based product that has excellent bio-degradability.

### PHYSICAL PROPERTIES:

Appearance : Light brown-greenish liquid  
 pH value solution at 20 °C : 6.0 ± 1.0  
 S.G. : 1.1 ± 0.1  
 Odour : Negligible  
 Solubility : Totally soluble in water

### USERS' RECOMMENDATIONS:

- After scouring/semi-bleach, wash/rinse goods once with warm water. Drain bath.
- Add acetic acid, (±0.2g/L) neutralize pH of bath to between 6-8, add diluted **PEROZYME K8** (0.01-0.02g/L), run for 10-20 minutes. Sample water for residual Peroxides with indicator dip-stick. Add dyestuffs and auxiliaries, salt, continue with normal dyeing and finishing processes.

- ❖ Workable pH range : 5 - 9
- ❖ Optimal pH range : 6 - 8
- ❖ Workable temperature range : 25°C - 70°C
- ❖ Optimal temperature range : 55°C ± 5°C

**PACKINGS** : 30Kg Jerry Can

**STORAGE** : Under closed condition; At 30°C, stability; 6-12 months

**TRANSPORT:** Product is not classified as hazardous.



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