

# LEMON FRESH SAFETY BLEACH

## LAUNDRY SANITISING POWDER

### Product Data

#### DESCRIPTION

LEMON FRESH SAFETY BLEACH is a white, free flowing, lemon scented concentrated laundry sanitising powder.

#### PRODUCT FEATURES

- Low foaming.
- Contains whiteners.
- Works in low temperatures.
- Contains soil suspension agents.
- Economical.
- Sanitises in low temperatures.



#### APPLICATIONS

LEMON FRESH SAFETY BLEACH is suitable for use in all laundry machines.

#### DILUTIONS

- For lightly soiled washing – 1/2 to 3/4 cup/load (18g/kg washing)
- For heavily soiled washing – 3/4 to 1 cup/load (30g/kg wash)
- For front loading and twin tub machines, use half-recommended dosage.

**Note:** For information on safety, please refer to Material Safety Data Sheets.

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### ***BLEACHING AND SANITISING ABLITY OF LEMON FRESH SAFETY BLEACH***

Lemon Fresh Safety Bleach contains Sodium percarbonate ( $\text{Na}_2\text{CO}_3$ ) $\cdot$  $2\text{H}_2\text{O}_2 \rightarrow 2\text{NaCO}_3 + 3\text{H}_2\text{O}_2$  commonly known as an oxygen Bleach or Safety Bleach.

Compared to Chlorine bleaches that leave contaminating residue in the environment, sodium Percarbonate is an environmentally friendly chemical which decomposes into oxygen, water and natural Soda Ash when subjected to moisture.\*

Sodium Percarbonate is

- Very effective as a laundry pre-soak\*
- Is colour safe\*
- It brighten colours\*
- Prevents fabric from becoming yellow or darkening\*
- Is effective as a disinfectant on both bacteria and viruses\*

\*Information sourced from Wikipedia Encyclopaedia, [www.wikipedia.org](http://www.wikipedia.org)

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### **MICROBIOLOGICAL EFFECTIVENESS\***

The use of hot water for laundry is becoming less and less important, not only because of efforts to conserve energy but also because modern synthetic and coloured fabrics can often tolerate temperatures of only 30-60°C. At 95°C, the disinfection of laundry is not a problem. Heavy-duty detergents containing perborate set hydrogen peroxide free in the wash water, but its concentration of around 200 ppm in the washing bath is too low to provide adequate disinfection action at 30-60°C. In the presence of an activator such as T.A.E.D, the reaction with perborate or H<sub>2</sub>O<sub>2</sub> in the washing bath (in situ) forms peracetic acid. This is known as a good disinfecting agent with a broad spectrum of action against pathogenic germs, fungi, viruses and spores. The effectiveness of peracetic acid is largely independent of the temperature and pH. When a heavy-duty detergent with perborate and T.A.E.D is employed in the home washing machine the concentration of peracetic acid is commonly 100-200mg/L (0.01-0.02%), which is sufficient to kill all currently known pathogenic germs. The use of heavy-duty detergents containing perborate and T.A.E.D for household laundry thus contributes greatly to every day hygiene even if the washing temperature is moderate (30-60°C)

### **YKON 'A' ACTIVATORS AS BIOCIDES\***

The peracetic acid geminated from T.A.E.D is an effective low temperature bleach and proven biocide. In tests specifically designed to stimulate the laundry process we have shown that a significant reduction in the level of bacterial contamination can be readily achieved at 40°C with a detergent containing T.A.E.D and sodium percarbonate. These results are equivalent to the more traditional high temperature thermal disinfection used.

#### *Mykon 'A' Activators in industrial and institutional laundries*

Although thermal disinfection is the traditional practice in industrial and institutional laundries, it is impractical for many of the textiles and fibre compositions used in modern clothing. By using a T.A.E.D detergent system, disinfection can be extended to include the more delicate fabrics and fibres.



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### **BIOCIDAL WASH TEST\*** **CONTAMINATED COTTON PIECES**

Conditions:	40°C Frontloading automatic machine	
Formulations:	Detergent Base	82.00%
	T.A.E.D	2.00%
	Perborate	
	Tetrahydrate	12.00%
	Sodium Sulphate	4.00%
Production in Contamination (compared to untreated samples)		

	Detergent without T.A.E.D	Detergent with T.A.E.D
Staph, Epidermis	None	X 1000
Staph, Aureus	x 1000	x 10 000
E-coli	x 1000	x 10 000

\* Redox Sydney

