

The First Enzymatic Detergent to be Fully Accepted on the Market

Registration No.	Number 00211		
Registration Date	September 13, 2016	Registration Category	Category 1

Name (Model, etc.)	“Top”, Laundry detergent with enzyme
Location	Sumida-ku, Tokyo
	Lion Corporation
Owner (Custodian)	Lion Corporation
Manufacturer (Company)	Lion Fat and Oil Co.,Ltd. (now Lion Corporation)
Year Manufactured	1982 (complete original contents)
Year first appeared	1979
Reason For Selection	In an era of uncertainty about the safety of enzymes when many rival firms withdrew their enzymatic detergents from the market, this product was the first to be deemed completely safe and fully accepted on the market. The phosphate used in synthetic detergents was cited as one of the factors in the eutrophication of lakes and reservoirs and other problematic environmental effects caused by domestic wastewater. Phosphate was an important ingredient for the cleaning efficacy of the detergent, so the challenge was to produce a synthetic detergent that contained little to no phosphate. This product successfully compensated for the reduced cleaning efficacy due to the lower phosphate content by adding in granular capsulized enzymes that would be harmless during manufacture and use. This is a valuable item that represents an important step in the development of synthetic detergents.
Registration Standard	2-A (Played a notable role in improving people’s way of life and creating new ways of living.)

Open/Closed to Public	Open to Public
Photo	
Other useful information	* Two items have been registered – one with only the original packaging kept intact, and one with damaged packaging but complete original contents.