

# LIFESAVER® USA

LIFESAVER® USA is the North American distributor of the world's first all-in-one ultra filtration water bottle, the LIFESAVER® Bottle. LIFESAVER® USA is a social business that provides lifesaving products and services which aide in the sustainment of the people and the environment of our planet. Headquartered in Chesapeake Virginia, LIFESAVER® USA is a Veteran Owned Small Business serving commercial, governmental and humanitarian markets. LIFESAVER® USA products are available to Federal, State and local government responders via GSA Schedule 84 – Contract # **GS-07F-0242W**



## What is the LIFESAVER® Bottle?

The LIFESAVER® all-in-one ultra filtration water bottle is just that -- a 750ml water bottle with a built in dual-stage filtration system capable of filtering up to 4000 liters (1,000 Gallons) per replaceable cartridge. In essence, the LIFESAVER® is a mini water treatment plant you can carry with you. At its core, the LIFESAVER® utilizes hydrophilic hollow fiber tube technology with a .015 micron (15nm) absolute pore size as its microbiological ultra filter, eliminating all microbiological contaminants from the water. The microbe free water is then streamed through a specially-manufactured Activated Carbon Block (ACB) to reduce endocrine disrupting compounds such as heavy metals, chemical, or medical residues as well as enhancing esthetics. The result is clean water instantly. The LIFESAVER® purifies water solely through filtration, so there is no longer the need for chemical additives such as chlorine or iodine. The award winning LIFESAVER® bottles unique patented design and revolutionary approach to water filtration has made way for a paradigm shift in water access. No longer does the need exist to transport bottles of water around the Globe or across the state. With a LIFESAVER® bottle one has the ability to efficiently filter the water that is already around them.

## Supporting Emergency Preparedness/Response

Every year, thousands of people in the US are impacted by natural disasters. While it is impossible to prevent these occurrences it is possible to reduce their impact by adopting leading edge disaster management strategies. The Federal Emergency Management Agency (FEMA), with the advent of the LIFESAVER® Bottle, is able to pre-stage LIFESAVER® bottles within FEMA's ten regions to accommodate the post Katrina mandate to ensure potable water availability for up to one-million people for one-week at a vastly reduced cost from current spending on procurement, warehousing and transport of bottled water. This dramatic cost savings would be based on the decreased logistics requirement based on a single LIFESAVER® bottle being equivalent to over 4000 one liter bottles of water.

## Comparison of Standard FEMA Water Stockpile and the Lifesaver Solution

	<b>Current FEMA Approach</b>	<b>Using the Lifesaver Solution</b>
<b>Goal of Stockpile</b>	Provide <b>4 liters (1 gallon)</b> of sterile drinking water to <b>1,000,000</b> people for 7 days	
<b>Regional Stockpile</b>	<b>28,000,000</b> liters of bottled water	<b>7000</b> Lifesaver® Bottles
	Stored in <b>1,400 x 40'</b> containers	Stored in <b>1 x 40'</b> container
<b>Estimated Cost</b>	over <b>\$7,000,000</b>	Less than <b>\$1,000,000</b> including shipping
<b>Shelf life</b>	<b>2 years</b> (FDA mandated)	<b>5 years</b>

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## TECHNICAL INFORMATION



Min operating temp	32 F
Max operating temp	122 F
Min storage temp	14 F
Max storage temp	140 F
Initial flow rate	2.5 L/min
Cartridge service rating	4000 liters 6000 liters
MWCO	200KD's – on dextrans
Bacteria retention	>99.99995% (log 7.5)
Virus retention	>99.999% (log 5)
Chemical reduction	Activated carbon reduces chemical residues, inc: pesticides, endocrine disrupting compounds, medical residues and heavy metals
US Compliance	EPA – US National Primary Drinking Water Regulations under the Safe Drinking Act 93-523
Membrane Compliance	CE, EPA, NSF, WHO, WRAS, DVGW, KIWA, KTW, LSHTM
Dry weight	approx. 22 oz
Storage capacity	1.6 US Pints
Warranty	2 Year International Limited Warranty

## KEY FEATURES

### **HOLLOW FIBER TUBE CARTRIDGE**

The filter cartridge will last for either 4000 or 6000 liters depending upon bottle version and will filter to .015 Microns removing all microbiological contaminants including bacteria, viruses, cysts, protozoa, fungi and any other microbiological water-borne pathogen.

### **FAILSAFE TECHNOLOGY**

As the cartridge reaches its end of life the bottle requires added pumps to induce water flow. When the bottle requires significant pumping to induce flow then the user knows the cartridge is nearing expiry. When the filter ceases to pass water the cartridge is expired and it is time to replace the cartridge.

### **FILTRATION ON DEMAND**

Filters water on demand rather than upon collection resulting in rapid scavenging of water in the field. There is no time wasted at the point of collection. Simply, Fill-Pump-Drink, its that simple.

### **NO CHEMICALS**

Water is purified through 100% filtration requiring no chemical additives such as chlorine or iodine that leave a foul taste and which can cause harm to the user.