



## Details for Low-Foaming Surfactant -----Zwitterionic Laundry Detergent

### Septic Systems, Marine and Motor home Use

In aqueous cleaning solutions, demulsifiers have the ability to separate oil and grease from water. Many demulsifiers create a significant amount of foam, which can be difficult to manage, and many are specifically made for use in either alkaline or acidic solutions. Low foaming surfactant is stable, non-irritating, non-toxic and biodegradable. It is also a hydrotope, which by definition is a compound that solubilizes hydrophobic compounds in aqueous solutions.



Zaal laundry detergent does produce foam as seen in the photo on the left but only when the machine is in the wash cycle when the agitator stops the foam flattens quickly.



With the new Zaal Laundry Detergent

On discharge very little just a few bubbles are evident that flatten within seconds.



Regular Laundry Soap

These were taken with a new load of dirty clothes and using the regular load amount of T brand laundry detergent. This test was done after running the machine once through a wash cycle with just water to purge the machine.

## Regular Laundry Detergents

Hiding in the harbor  
Next time wait till dark



These soaps or surfactants are the most commonly used cleaners in the world and have come a long way since Lye soap made from fire ash. Formulated for two things performance and customer appreciation. The later has nothing to do with the performance ; it looks good and smells good in the wash But what happens after is what you can see in the above pictures; there is no need for this.

Regular Laundry detergents are formulated to produce foam have you noticed that the foam is always white and not dirty so if the foam is cleaning wouldn't it be dirty.

Fillers in powders, peanut shells, calcium carbonate, and silicates work as abrasives and destroy septic fields.

Ascetics that really don't clean anything but give the user the appearance.

Color dyes are also added for the look and to cover up inconstancy's like cloudiness all for the "look" Nothing for performance, they are water soluble and do nothing but add more into the environment and add to the carbon foot print to make.

Fragrance we do have a small amount of a certified natural fragrance but only enough to cover a slight alcohol smell. (Grain Alcohol is used to thin the product to make it easier to dissolve into the water)

The large amounts of fragrance used to over power the laundry room to give that fresh smell. This does nothing to increases the performance and if not fully rinsed off becomes an irritant to the skin. The carbon footprint is huge with the use of fragrances in laundry only to make the laundry room smell good.

You are washing clothes to get the dirt and grease out. All though added other things are just to make you feel fuzzy but have you ever considered what goes into the drains. If you have a boat RV or septic system discharge is the last step into the environment. You have seen it.

## Zaal Laundry detergent

Enjoy your sunset



### Goals that we set for ourselves and achieved when formulating this **Product**

Special effort to be given to reducing carbon foot print and to be a leader not a follower.

Biodegradable

Minimize Human sensitivity-Hypoallergenic PH neutral

Non foaming; fast flatting of any foam on discharge

Superior Performance

No fillers

No Phosphates

No unnecessary additives for enhancing human senses and ascetics

Concentrated formula to reduce freight and packaging

Reduce frequency of repurchase of product to reduce the number of visits to retail

Must be compatible with all washing machines regular and high efficiency washers

Must be fail safe; used in excess it will have no adverse effect on the environment.

IE human error; using ten times too much will still not cause any effects into the environment.

### Goals that we set for ourselves and achieved when sourcing **Packaging**

Special effort to be given to reducing carbon foot print and to be a leader not a follower

The most efficient form of packaging for reduction of packaging, freight, storage

Plastics must be the **most** readily recyclable material available

Plastic must have the **lowest weights** possible but still be user friendly

Reduce shipping carton sizes by using square containers

**High performance with the Lowest Carbon Foot Print Laundry available  
100 regular load washes in a one litre bottle**



**Product Code -----FI - ZAA - 090**

**UPC Code -----25013 90201**

**Cap --- HDPE**

**Bottle---PET**

**Bottle specs  
3.5" X 3.5" X 9"**

**Case of six  
7" X 10.5" X 9"**

**120 cases a skid**

**GEMINI PACKAGING LTD.**



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