

As you may have noticed we do not often write newsletters. We believe that most folks are familiar with world events and news that affects their businesses. When we do write a newsletter it is with the intent to bring you up to date with newsworthy items that may be unfamiliar or unclear to most. Having said that we would like to bring to your attention several events.

GHS

Material Safety Data Sheets (MSDS) have been around with us for a long time. The Globally Harmonized System (GHS) will soon change all of that and OSHA is backing this 100%. New information will be required in all the current MSDS which will also change their name to Safety Data Sheets (SDS). In addition, all labels will have to carry this information and both the labels and SDS will also display pictograms. The stated reasons for these changes is so that almost all the countries in the world will use the same system to identify associated hazards with chemicals and thereby reduce the red tape that can stall an export order.

C8

The phrase C8 has been used in associating chemicals that have perfluorooctanoic acid (PFOA). On January 25, 2006, the US EPA announced a voluntary program with several chemical companies to reduce PFOA and PFOA precursor emissions by the year 2015. As a result of this and other industry decisions, no products containing PFOA will be manufactured after 2015, however, existing inventories may be sold after this date until exhausted. You should know that our products were never made by us using PFOA or another unpopular chemical known as perfluorooctane sulfonate (PFOS).

Glass Care

Our glass protectors are the finest and most diversified in the market. They include both solvent and water-based formulations and they can offer scratch-resistance, water-repellency, dirt-resistance and the like. If interested please contact us for more information.

Information contained herein is believed to be accurate but is offered without any warranty, including any implied warranties of merchantability or fitness for any purpose.

Super Hydrophobic

A "new" type of universal protector known as "Super Hydrophobic" has popped up in the market. The difference between super and regular hydrophobic is the contact angle of the water bead. Anything less than a 150 degree contact angle is just hydrophobic, while anything above 150 degree contact angle is Super Hydrophobic. The two popular super hydrophobic products on the market are two step applications. You spray the first coat which acts as a binder and then after an advised lapse of time, you spray the second coat which acts as the repellent. While the repellency of water is initially impressive, the protector wears off very quickly and then water will absorb into the material in virtually the same manner as if it were untreated. In addition these products leave a white chalking* on almost everything or change the colors and texture of virtually all surfaces such as, but not limited to, boots, shoes, and clothing. We are familiar with these issues because we invented our first super hydrophobic product in our lab in the late 80's. After seeing the aforementioned drawbacks, we decided against releasing it at that time.

We are pleased to tell you that we have been re-designing our super hydrophobic products and so far we can tell you that:

- A) we are one-step application instead of a two step
- B) we do not significantly change the look of textiles & wearables *
- C) If desired, we can design these products to repel oil as well as water.

We are currently sampling these products to customers who have a signed NDA with us. Let us know if you want to participate.

* up to 98% less chalking (also referred to as "haze" or "frosting")



As a reminder, our **FLAME-SHIELD®** fire retardants do not have any PBDE's, work extremely well, not just on natural fabrics but on virtually all synthetics and combinations thereof. Moreover, they are registered with the City of New York and State of California Fire Marshall. They are easy to use, work better than simple salt-based fire retardants and do not stiffen fabrics. They can also be used on paper, commercial ceiling tiles, porous wood, and many other porous surfaces.



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SUPER HYDROPHOBIC

Fiber-Shield® Popular Competitor

	Fiber-Shield®	Popular Competitor
One Step Process	✓	2 Step
Water Repellency	✓	✓
Oil Repellency	✓	⊘
Alcohol Resistant	✓	⊘
Oily Stain Resistant	✓	⊘
Oily Dirt Resistant	✓	⊘
Easier to Apply	✓	⊘
Changes Dark Colors	⊘ *	✓
Chalking	⊘ **	✓

* Non-Acetone Formula

** Leaves a white chalking (also referred to haze/ frosting) when applied as per MFG'S Direction. Up to 98% less chalking (also referred to as "haze" or "frosting") with Fiber-Shield® Super Hydrophobic.

