



CHEMGREEN SFS

Sun Flower Softener

**NEW GENERATION
INDUSTRIAL FABRIC
CONDITIONER**



CHEMGREEN SFS

**A Familiar Product
For A Sustainable
World**



- » What is **Chemgreen SFS**?
- » What is its main source?
- » Why is this source chosen?
- » Why is an alternative production is being sought with a new source?
 - » What kind of a result has been achieved with the final product (**Chemgreen SFS**) at the targeted point and what industries could be preferred as alternative?



WHAT IS CHEMGREEN SFS ?

It is a new generation industrial fabric conditioner that is obtained by making use of new fatty acid (Sunflower Oil) and modified production processes which we aim to be used instead of classical conditioners with fatty acid used in the industrial textile industry.



WHAT IS THE MAIN SOURCE OF CHEMGREEN SFS?

The main source of **Chemgreen SFS** is one of the most produced fatty acids in the nature, Sunflower oil. Food industry is the general area of use of the oil obtained from the Sunflower plant, which has a dense plantation area and production.





WHY IS THAT SOURCE CHOSEN?

All of the classical conditioner groups used in the textile industry are obtained by amitizing imported conditioning products. And stearic acid creates the main raw material of the final product. Prices, due dates and amounts of imported conditioning products change during the year.

WHY IS THAT SOURCE CHOSEN?

Changing of the prices, due dates and amounts during the year creates an inconsistency in terms of finance and results in a negative situation for the manufacturer companies. Sunflower oil provides a more comfortable use in terms of product quality and supply since it is domestic production.



WHY IS THAT SOURCE CHOSEN?

The final product (**Chemgreen SFS** - Functional Fabric Conditioner) obtained by use of sunflower oil and new production process has hydrophilic character. Even though it is one of the most sought features in textile finish process, a final product with hydrophobic character cannot be obtained from the production provided by classical (current) conditioner.



WHY IS SOURCE CHOSEN?

In addition to this, the finished product obtained from the use of sunflower oil and new production process provides more color vividness and exhibit a more advanced product structure compared to the classical (current) product.





Chemgreen SFS has a significant place in today's industrial textile industry and throughout the whole world in line with the "sustainability" principle. Sunflower which is accepted as the main product in agricultural production and has high adaptability; the fact that it can grow under dry and wet conditions, suitable for mechanization from its plantation to harvest, are the superior features of its agriculture.

WHY IS THAT SOURCE CHOSEN?

Considering all these features, use of Sunflower oil as an alternative product and the contributions it will provide to agriculture are undeniably big. And the raw material produced in a field of agriculture can create a field of use for itself.



WHY IS THAT SOURCE CHOSEN?

On the other hand, stearic acid that is imported and used in today's fabric conditioners, is mainly obtained from palm plant (Palm Oil Acid) industrially. This fatty acid with high saturated fat is mainly produced at planted areas in Indonesia, Malaysia and China.



WHY IS THAT SOURCE CHOSEN?

Production of palm oil causes climate changes, air pollution and soil erosion. Also millions of hectares of natural areas are destroyed annually in order to produce palm oil, and this destruction severely damages nature and habitats.



A large sunflower with a vibrant yellow center and petals. The center of the sunflower is replaced by a cluster of colorful, synthetic fibers in shades of blue, purple, red, and green, suggesting a connection to palm oil or synthetic materials. The sunflower is set against a white background with a thin yellow border.

WHY IS THAT SOURCE CHOSEN?

The effect of palm oil on human health has become a big matter of debate. According to the research conducted by World Health Organization, palm oil causes various heart diseases, early deaths and respiratory tract diseases.



WHY IS THAT SOURCE CHOSEN?

At the same time, there are some serious factors such as insufficient birth control, low breastfeeding rates, lack of childcare opportunities and insufficient mother health due to low working opportunities of women employed in this industry.

On the other hand, Sunflower oil has a more familiar and reliable attitude thanks to its environment friendly identity.





ALTERNATIVE INDUSTRIES

Our start point for production of **Chemgreen SFS** has been conditioners used in the textile finish procedures as we mentioned at the beginning of our presentation. However, with the alternative stearic acid amid (**Chemgreen SFS**) obtained from the use of sunflower oil; use of **Chemgreen SFS** shall be possible in other industries such as cosmetic and detergent.