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Soaps And
Detergents

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Author Douglas Hayes

How Laundry

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(SURFACTANTS)

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\u0026 Detergents)

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Case Study # 3 –
Surfactants, soaps and
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Surfactants

Alkyl Benzene Sulfonate

- An anionic surfactant -

Used until 1960 - Non

biodegradable - Foam

on weirs and waterfalls

on rivers downstream

from sewage treatment

plants SLS – Sodium

Lauryl Sulfate

Surfactants, soaps, and
detergents

Soaps and Detergents

are chemical compound

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or mixture of compounds used as a cleansing agent. Soap is a sodium salt or potassium salt of many combinations of fatty acids having cleansing action in...

Soaps and Detergents: Chemistry of Surfactants

Surfactants (surface-active agents) are

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marketed in many forms and in many products, but mainly as soaps and synthetic detergents. Significant quantities of animal fats and vegetable oils go into the manufacture of both soaps and detergents.

SOAPS,
DETERGENTS, AND
SURFACTANTS

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Journal of Surfactants and Detergents, a journal of the American Oil Chemists ' Society (AOCS) publishes scientific contributions in the surfactants and detergents area. This includes the basic and applied science of petrochemical and oleochemical surfactants, the development and

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performance of surfactants in all applications, as well as the development and manufacture of detergent ingredients and their formulation into finished products.

Journal of Surfactants
and Detergents - Wiley
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Main Difference. The main difference between

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Surfactant and Detergent is that the Surfactant is a group of chemical substances and Detergent is a purifying or cleansing agents, usually salts of long-chain aliphatic bases or acids, that exert cleansing (oil-dissolving) and antimicrobial effects through a surface action that depends on possessing both

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hydrophilic and hydrophobic properties.

Surfactant vs. Detergent
- What's the difference?

| Ask ...

Both soaps and detergents are known as surfactants (short for surface-active agents). Surfactant molecules contain a lipophilic (fat-loving) end that attaches grease dirt and a

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Surfactants

hydrophilic (water-loving) end which makes the molecule dissolve in water.

Soap VS Detergent: What's The Difference

...

The water-fearing end of the surfactant is made up of hydrocarbon chains. A hydrocarbon is a molecule that is made of hydrogen and

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carbon. The chains love oil and grease and will try to stay away from water. The water-loving end is known as the hydrophilic end.

The Chemistry of
Cleaning | The
American Cleaning ...

Detergents and soaps are surfactants, short for surface-active agent.

Surfactants have a

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hydrophilic side of the molecule attaches to water, and a hydrophobic side of the molecule that avoids water. In the absence of oils, the hydrophobic side sticks out of the surface of the water drop.

Ingredients --
Detergents and
Surfactants

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Surfactants

Detergents are primarily surfactants, which could be produced easily from petrochemicals.

Surfactants lower the surface tension of water, essentially making it 'wetter' so that it is less likely to stick to itself and more likely to interact with oil and grease.

Understanding How

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Detergents Actually Work

Anionic surfactants have a negatively charged head which gives them excellent cleaning properties and high sudsing potential. This complements the nonionic surfactants resistance to hard water deactivation. Tide and Wisk are two of the many different brands of

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detergents that use
nonionic surfactants.

Common Household Products That Contain Nonionic Surfactants

Our lauric oil products,
especially coconut oil,
are a key raw material
for betaines.

Alkanolamides: Foam
boosting surfactants
which also assist in
fragrance solubilisation

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for personal care and household detergent products. Again, our lauric oil products are key raw materials in their production. Soap: Bar soap made by traditional methods uses vegetable oils as a starting point; palm oil and palm kernel or coconut oil are blended in a ratio of about 4:1 and then converted to

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Soaps & Surfactants | Cargill

The \$42 billion global surfactant market is primarily driven by home and industrial uses, where these chemicals are used in products such as cleansers, soaps and detergents.

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New Sustainable Chemistry Research: Is Silk Our New Soap?

A detergent is made up of many ingredients, some of which are surfactants. An example of the mixture of compounds in a detergent is shown in Table 1. In this formulation there are seven surfactants, two anionic, three non-ionic

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and two soaps.

However, there are other ingredients, each with specific functions:

Surfactants - Essential Chemical Industry

Surfactants are one of the major components of laundry and cleaning products. They break up stains and suspend the dirt in the water to prevent the redeposition

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of the dirt onto the surface. Surfactants disperse dirt that normally does not dissolve in water. They work like an oil and vinegar salad dressing.

Laundry Detergent Ingredients and How They Work

Ingredients required include; bleach agents, phosphate, anionic

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Surfactants, dye, preservatives, fragrance, phosphonate derivatives etc. 2/3rd of laundry detergents are produced with hazardous ingredients. These gallons of toxic liquid laundry detergents can cause cancer, eye irritation, kidney, liver and respiratory problems.

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25 Worst Liquid Laundry Detergents - Housely

Surfactants form the base of all personal cleansing products and can also have wetting, conditioning, defatting, emulsifying, & thickening effects.

Surfactants are also very useful for homemade soaps (particularly liquid soaps) to improve

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lathering and decrease harshness. They are added to the oil-lye mixture during the boiling procedure.

[Surfactants & Soaps - Makingcosmetics.com](#)

Laundry detergent, or washing powder, is a type of detergent (cleaning agent) used for cleaning

laundry.Laundry

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detergent is manufactured in powder and liquid form.

While powdered and liquid detergents hold roughly equal share of the worldwide laundry detergent market in terms of value, powdered detergents are sold twice as much compared to liquids in terms of volume.

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Laundry detergent -
Wikipedia

Amphoteric or zwitterionic surfactants are both positively and negatively charged. These surfactants are very mild and are often found in gentler cleansers such as hand soaps, shampoos and cosmetics. [source: Silberberg]. Read on to learn about some other

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Ingredients that help
detergents do their job.
Detergents and Mite
Allergen Removal

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