

## Sulfonation And Sulfation Processes Chemithon

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### Sulfonation And Sulfation Processes Chemithon

Sulfonation and sulfation are major industrial chemical processes used to make a diverse range of products, including dyes and color intensifiers, pigments, medicinals, pesticides and organic intermediates. Additionally, almost 500,000 metric tons per year of lignin sulfonates are produced as a by-product from paper pulping.

### Sulfonation and Sulfation Processes - Chemithon

The largest Chemithon division emerged from the company's invention of the continuous oleum sulfonation process in the mid-1950s. Today, our customers use Chemithon air-SO<sub>3</sub> sulfonation systems to produce surfactants used in a wide variety of consumer and industrial products, as well as oil additives. Our family of sulfonation reactors offers a wide breadth of options, each designed for a specific need.

### Chemithon Detergents

Chemithon continues to perfect processes for sulfonation and sulfation for a wide variety of organic feedstocks, including alkylbenzenes (linear and branched), fatty alcohols, ethoxylated and propoxylated fatty alcohols, alpha olefins, internal olefins, fatty acid alkylesters, crude oil and lignin-based feedstocks and many others.

### Sulfonation And Sulfation Processes Chemithon

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### Sulfonation And Sulfation Processes Chemithon

Sulfonation and sulfation are two important chemical processes used in many industries to add a sulfur-containing group to an organic compound. The main difference between sulfonation and sulfation is that sulfonation involves the formation of a C-S bond whereas sulfation involves the formation of a C-O-S bond. Reference: 1. "Sulfonation."

### Difference Between Sulfonation and Sulfation | Definition ...

Chemithon Sulfonaion and Sulfation plants represent the very latest sulfonation technology, based on more than a half century of experience and continuous improvement as the industry's foremost innovator of sulf (on)ation processes and equipment. Chemithon proven technology results in durable, highly reliable processes and equipment to sulfonate/sulfate the broadest range of feedstocks and produce the highest quality surfactant products on the market.

### Chemithon Detergents

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### Sulfonation And Sulfation Processes Chemithon

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Starting with Sulfonation/ Sulfation process technology, Chemithon has complete pilot plant facilities to perform experimental research and process development. Our pilot plant systems occupy approximately 1,000 square meters including units for sulf (on)ation, neutralization, AOS hydrolyzing, 1,4 dioxane removal, alkyl fatty-acid methylester sulfonic acid digestion, bleaching, neutralization, drying, flaking, grinding and agglomeration.

### **Chemithon Pilot Plants - Chemithon Enterprises**

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### **Sulfonation And Sulfation Processes Chemithon**

The Chemithon Corporation. Corporate ~ Seattle, Washington USA. The Chemithon Corporation is a privately held group of international technology companies offering process development, engineering, plant equipment manufacturing, construction, and a full range of services to customers. Surfactants from our sulfonation plants are key ingredients in detergents, shampoos, toothpaste, oil additives and numerous other consumer and industrial products.

### **Chemithon Corporation - Chemithon Enterprises**

Chemithon has built the largest sulfonation production plants in the world and supplies processes and equipment for complete plant systems, all aspects of sulfonation, light and dense powder production, liquid products blending, as well as final product handling, offsite support systems and complete technical services.

### **Chemithon History**

sulfonation process described in this work is one of the more complicated cases. Although . ... Sulfonation and sulfation processes. The Chemithon Corporation, Retrieved from:

### **(PDF) Sulfonation/Sulfation Processing Technology for ...**

Chemithon continues to perfect processes for sulfonation and sulfation for a wide variety of organic feedstocks, including alkylbenzenes (linear and branched), fatty alcohols, ethoxylated and propoxylated fatty alcohols, alpha olefins, internal olefins, fatty acid alkylesters, crude oil and lignin-based feedstocks and many others.

### **Chemithon Specialty Chemicals**

Chemithon Enterprises Inc. has withdrawn from a regional sales office in Singapore formerly known as Chemithon International Pte Ltd, effective March 14, 2014. Furthermore, Mr. Sanjay N. Trivedi no longer represents Chemithon Enterprises Inc. or The Chemithon Corporation in the worldwide marketplace for our technologies and services.

### **Chemithon Enterprises**

"The Chemithon Corporation (hereinafter referred to as `Chemithon') has a process for the continuous sulfonation of alkyl benzenes (hereinafter referred to as `Said Process'). Chemithon has appointed Oronite Chemical Company (hereinafter referred to as `Oronite') to act as its exclusive agent to introduce plants suitable for the practice of Said Process.

### **Chemithon Corporation v. Procter & Gamble Company, 287 F ...**

Sulfonation and sulfation are chemical processes for introducing the sulfur trioxide moiety into organic entities. These processes are utilized in both batch and continuous modes to produce anionic surfactants, cyclic intermediates, dyes, pigments, medicinals, pesticides, sweeteners, lubricant additives, and polymeric specialty chemicals.

### **Sulfonation and Sulfation - Knaggs - - Major Reference ...**

The paper will summarize the sulfonation/sulfation process used in the detergent industry, with particular emphasis on the modern techniques involving the use of diluted gaseous SO<sub>3</sub> as a sulfonating agent. The outstanding features of the commercially available SO<sub>3</sub>-air processes will be described, and the Ballestra, Berol, Allied, Chemithon, and Mazzoni reactors will be shown graphically in figures.

### **Processing and packaging sulfonation and sulfation ...**

Surfactants from the sulfonation plants designed and supplied by Technithon are key ingredients in detergents, shampoos, toothpaste, oil additives and other consumer and industrial products. Our goal is to offer innovative, high quality products and services to meet the needs of our customers through continuous product development, improved ...