

Product Bulletin

Product Name	STEOL® OS-370 PLUS
Chemical Structure	$\text{CH}_3(\text{CH}_2)_n\text{CH}_2(\text{OCH}_2\text{CH}_2)_3\text{OSO}_3\text{Na}$ $n = 8-14$ (alt $n = 10-13$)
Chemical Description	STEOL OS-370 PLUS is an aqueous concentrated sodium lauryl ether sulfate derived from synthetic fatty alcohols, ethoxylated to an average of one mole, and sulfated via Stepan's continuous SO_3 process. Additional manufacturing considerations result in a low level of residual 1,4-dioxane in STEOL OS-370 PLUS.
CAS Registry Number	68585-34-2 (alternate CAS Registry No. 125301-92-0)
INCI Name	Sodium Laureth Sulfate (Sodium C1215 Alketh Sulfate formerly known as "Sodium C12-15 Pareth Sulfate")
Applications	<p>STEOL OS-370 PLUS is mild with excellent detergent and foaming properties in hard and soft water and is compatible with other anionics, nonionics, and alkaline builders. STEOL OS-370 PLUS provides improved mildness over sodium lauryl sulfate without sacrificing critical performance attributes, such as foaming and viscosity response.</p> <p>Common uses include:</p> <ul style="list-style-type: none"> • High Foaming Cleaners • Liquid Detergents • Liquid Hand Soaps • Heavy Duty Alkaline Cleaners • Shampoos • Bath Products
Typical Properties	<p>Appearance at 25°C Slightly yellow, mobile paste</p> <p>Actives (MW 439), % 69</p> <p>pH, 10% aqueous 8.3</p> <p>Color (% T at 420 nm), 25% active 90</p> <p>Boiling Point, °C (°F) >100 (>212)</p> <p>Pour Point, °C (°F) 21 (70)</p> <p>Flash Point, PMCC, °C (°F) >94 (>201)</p> <p>Unsulfated Alcohol, % 1.5</p> <p>Sodium Sulfate, % 0.3</p> <p>Density at 25°C, g/mL (lbs/U.S. gal) 1.03 (8.6)</p> <p>1,4-Dioxane, ppm <10</p> <p>Level of ethoxylation on average 3 moles</p> <p>RVOC, U.S. EPA, % 0</p> <p>Preservative Not required</p>
Environmental Effects	STEOL OS-370 PLUS is expected to be readily biodegradable. A detailed biodegradability statement is available upon request.



Health Effects

STEOL OS-370 PLUS is expected to be slightly to practically nontoxic orally ($LD_{50} > 2000$ mg/kg) and cause minimal to moderate skin and eye irritation at 10% active.

Storage & Handling

Normal safety precautions (e.g., gloves and safety goggles) should be employed when handling STEOL OS-370 PLUS. Contact with eyes, nose or prolonged contact with skin should be avoided. Wash thoroughly after handling STEOL OS-370 PLUS. See SDS for more information.

Standard Packaging: STEOL OS-370 PLUS is available in bulk quantities. For other package sizes, please consult your Stepan Sales Representative.

Storage Recommendations: STEOL OS-370 PLUS bulk storage should be in vessels of 316 stainless steel; tanks, pumps, pipes and heat exchangers made of 316 stainless steel are recommended. Rotary piston type (positive displacement only) pumps are recommended. Tank configuration recommended to have minimum 10° slope. Avoid dead spots and accumulation of product in tank or piping.

Product must be stored below 40°C (104°F). 1,4-dioxane levels in the product may increase over time. The rate of increase is affected by time, temperature and pH. The increase of 1,4-dioxane is minimized when product is stored at or below 25°C. Stepan encourages customers to test the 1,4-dioxane level of their final formulations in accordance with their established testing protocols. STEOL OS-370 PLUS will remain fluid and pumpable above 21°C (70°F).

Workplace Exposure

Occupational exposure can occur primarily through skin contact or via inhalation of vapors and mists. Engineering controls, personal protective equipment, and other workplace safety practices should be used to control these exposures. See SDS for more information.

Clearances

The international inventories (country clearances) of STEOL OS-370 PLUS can be found in Section 15 of the Safety Data Sheet (SDS). It is the responsibility of the formulator to review the chemical control regulations for each country where the end-product is intended to be sold or used. If you have any further questions regarding inventories, please contact North America Technical Service at techserv@stepan.com.

Product Stewardship

This product bulletin has been written in accordance with ACC's Product Stewardship guidelines.

Additional Safety Information

A Safety Data Sheet (SDS) is available upon request.



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Stepan

Corporate Headquarters
Northbrook, Illinois 60062, U.S.A.

Phone: 847-446-7500

Fax: 874-501-2100

Website: www.stepan.com

For Technical Service Call:

Stepan North America **+1-800-745-7837**

Stepan Mexico **+55-11-5089-2208**

Stepan Quimica **+55-11-5089-2200**

Stepan Colombia **+571-636-2808**

Stepan Europe **+33-476-505-160**

Stepan Asia **+656-879-9855**

Stepan Philippines **+656-879-9855**

For Customer Service Call:

Stepan North America **+1-800-457-7673**

Stepan Mexico **+52-555-533-1967**

Stepan Quimica **+55-11-5089-2200**

Stepan Colombia **+57-6-8993125**

Stepan UK **+44-161-338-5511**

Stepan France **+33-476-50-51-00**

Stepan Philippines **+63-2-842-7951**