



Technical Data sheet

1. Identification

Product identifier

Product **SLS** (sodium Lauryl Sulfate 30%)

Chemical structure $\text{CH}_3(\text{CH}_2)_{10}\text{CH}_2\text{OSO}_3\text{Na}$

Chemical Description SLS is an aqueous concentrated sodium lauryl ether sulfate derived from fatty alcohols and sulfated via SLES continuous SO_3 process. The consistent, high purity product made possible by this continuous sulfation process will afford excellent reproducibility in SLES based formulas.

68585-34-2

CAS Registry No Sodium Lauryl Sulfate

INCI Name

2. Applications

SLS can be readily formulated into shampoos, bath products, hand soaps, and detergents offering the required physical properties and performance attributes.

Products based on SLS can be thickened with salts, betaines, or amides, with the latter two also serving to enrich the foam. A variety of performance and physical attributes can be obtained simply by adjusting the amount of additive incorporated into a formula. Since SLS is compatible with commonly used opacifying and pearling agents, the formulator is afforded flexibility in developing the desired product appearance





3. Typical Properties

Typical Properties	
Appearance at 25 °C	Mobile paste
Actives, % (MW 302)	28 - 30
Unsulfated Alcohol (language on CoA), %	2 max
Sodium Sulfate, %	1 max
pH, 10% aqueous	7.0 – 9.0
Color, Klette	30 Max
Flash Point (PMCC), °C (°F)	>94 (>201)
Density at 25 °C, g/ml (lbs/U.S. gal.)	1.03 (8.6)
Critical Micelle Concentration, mg/L	279
RVOC, U.S. EPA, %	0
Preservative	Not required

Environmental Effect

SLS is readily biodegradable. A detailed biodegradability statement is available upon request.

Health Effects

Product is slightly to practically non-toxic orally (LD50 >5 g/kg).and it causes minimal skin and moderate eye irritation at 10% active.

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 practices should be used to control these exposures.

Storage & Handling

Normal safety precautions (i.e., gloves and safety goggles) should be employed when handling SLS. Contact with the eyes and prolonged contact with the skin should be avoided. Wash thoroughly after handling material.





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Bulk Storage Information

Tanks, pumps, pipes and heat exchangers made of 316 stainless steel are recommended. Rotary piston type (positive displacement only) pumps are recommended. Recommended storage temperature for bulk tanks is 32-43 °C (90-110 °F).

Standard Packaging:

SLS is available in bulk and 210 kg drums.

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 practices should be used to control these exposures.

Product Stewardship

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

Additional Safety Information

A Safety Data Sheet is available upon request.

The information contained herein is based on the manufacturer's own study and the works of others and is subject to change without prior notice. The information is not intended to be all-inclusive, including as to the manner and conditions of use, handling, storage or disposal or other factors that may involve additional legal, environmental, safety or performance considerations. Nothing contained herein grants or extends a license, express or implied, in connection with any patents issued or pending of the manufacturer or others, or shall be construed as a recommendation to infringe any patents or to violate any applicable laws.

