

## Technical Data sheet

### 1. Identification

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#### Product identifier

Other means of identification **SLES70% (Sodium Lauryl Ether Sulfate 70%)**

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

CAS Registry No 68585-34-2

INCI Name Sodium Laureth Sulfate

#### Chemical Description

SLES70% is an aqueous concentrated sodium lauryl ether sulfate derived from fatty alcohols, ethoxylated to an average of two moles, and sulfated via continuous SO<sub>3</sub> process. The consistent, high purity product made possible by this continuous sulfation process will afford excellent reproducibility in SLES70% based formulas.

### 2. Applications

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SLES70% provides improved mildness over sodium lauryl sulfate without sacrificing critical performance attributes, such as foaming and viscosity response. Its low irritation properties make it ideal for mild cleansing products. SLES70% can be readily formulated into shampoos, bath products, hand soaps, and detergents offering the required physical properties and performance attributes. Products based on SLES70% 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 SLES70% 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 384)	68-72
Unulfated Alcohol	2 max
Sodium Chloride, %	0.5 max
Sodium Sulfate, %	1.5 max
pH, 10% aqueous	7.0 – 9.0
Color, %T at 440 nm, 25% active	90 min
Flash Point (PMCC), °C (°F)	>94 (>201)
Freeze Point, °C (°F)	5 (40)
Boiling Point, °C (°F)	>100 (>212)
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 Effects

SLES70% 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

#### Storage & Handling

Normal safety precautions (i.e., gloves and safety goggles) should be employed when handling SLES70% . Contact with the eyes and prolonged contact with the skin should be avoided. Wash thoroughly after handling material.

The recommended dilution procedure for SLES70% is to heat the precalculated water charge to 30-40 °C (86-104 °F). While agitating, add the SLES70% at such a rate as to allow the product to dissolve without forming large gel masses. If excessive foam is generated, decrease agitation. All inorganic salts should be added once a clear solution of desired activity has been obtained.

It is recommended that SLES70% be stored in sealed containers and kept at temperatures between 32-43 °C (90-110 °F). Avoid overheating or freezing. If material is frozen, heat mildly using warm water tracing.

### **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.

### **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**

SLES70% is available in bulk and 210 kg drums.

### **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,

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