

Product Bulletin

Product Name	STEPANOL® WAT-K
Chemical Structure	$\text{CH}_3(\text{CH}_2)_{11}\text{OSO}_3\text{N}(\text{CH}_2\text{CH}_2\text{OH})_3$
CAS Registry No.	117875-77-1
INCI Name	TEA Lauryl Sulfate
Applications	<p>STEPANOL WAT-K is a triethanolamine lauryl sulfate produced from the sulfation of fatty alcohol via Stepan's continuous SO_3 process. This process allows the consistent production of a high purity product such as STEPANOL WAT-K. STEPANOL WAT-K is preserved with Methylchloroisothiazolinone/Methylisothiazolinone which provides better color stability over product preserved with formaldehyde.</p> <p>STEPANOL WAT-K can be used in shampoos, bubble baths, liquid hand soaps, and other personal care applications. It provides formulations with dense, creamy foam which, along with its viscosity characteristics, has excellent cosmetic appeal. STEPANOL WAT-K is easily formulated with alkanolamides and amphoterics for optimization of foam and viscosity characteristics. It can be used in clear products where low temperature clarity is important.</p>
Typical Properties	<p>Appearance at 25 °C..... Clear liquid</p> <p>Actives, % (MW 422)..... 40.8</p> <p>pH, 10% aqueous..... 6.8</p> <p>Color, Gardner 1</p> <p>Cloud Point (as is), °C (°F)..... 0 (32)</p> <p>Pour Point, °C (°F) -1 (30)</p> <p>Boiling Point, °C (°F) >100 (>212)</p> <p>Freeze Point, °C (°F)..... -4 (25)</p> <p>Flash Point (PMCC), °C (°F) >93 (>200)</p> <p>Viscosity at 25 °C, cps 456</p> <p>Density, g/ml (lbs/U.S. gal.)..... 1.04 (8.7)</p> <p>RVOC, U.S. EPA, % 0</p> <p>Preservative Methylchloroisothiazolinone/Methylisothiazolinone</p>
Environmental Effects	Product is biodegradable. Additional information is available upon request.
Health Effects	STEPANOL WAT-K is moderately to slightly toxic orally (LD_{50} ranging from 0.25 to >1.95 g/kg) and causes moderate to severe eye and skin irritation at 10% active.
Storage & Handling	<p>Normal safety precautions (i.e., gloves and safety goggles) should be employed when handling STEPANOL WAT-K. Contact with the eyes and prolonged contact with the skin should be avoided. Wash thoroughly after handling material.</p> <p>It is recommended that STEPANOL WAT-K be stored in sealed containers and kept at temperatures above 45 °F (7 °C). Avoid overheating or freezing. If material is frozen, mild heat and agitation are recommended to ensure the material is homogeneous before use.</p>



Storage & Handling

Bulk Storage Information: Tanks made of 316 stainless steel or fiberglass with an Atlac 382 corrosion liner are recommended. Certifugal pumps and piping should be 316 stainless steel. Recommended storage for bulk tanks is 85-105°F (29-41°C).

Standard Packaging: STEPANOL WAT-K is available in bulk and 55 gallon drums (net weight 450 lb/204 kg).

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.

Clearances

All components of STEPANOL WAT-K are listed in the following countries; the registration numbers for the active ingredients are included in parentheses: United States (TSCA 117875-77-1), Australia (AICS 139-96-8), Canada (DSL 117875-77-1), China (IECSC 117875-77-1), Europe (EINECS 205-388-7), Japan (ENCS 2-1675), Korea (ECL Serial No. KE-32633), New Zealand (NZIoC 117875-77-1), Philippines (PICCS 139-96-8), and Taiwan (TCSI 117875-77-1).

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.

STEPANOL WAT-K is available as Kosher Certified.

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.



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