



## Product Bulletin

### BIO-TERGE® PAS-8S

Product Name	
Chemical Structure	RCH <sub>2</sub> -SO <sub>3</sub> Na                      R=C <sub>7</sub>
Chemical Description	Sodium Alkane Sulfonate
INCI Name	Sodium Caprylyl Sulfonate
CAS Registry No.	5324-84-5
Applications	BIO-TERGE PAS-8S is a high quality, light colored, aqueous solution of primary alkane sulfonate; it is a low foaming, biodegradable anionic surfactant with excellent coupling properties. BIO-TERGE PAS-8S provides good wetting and hydrotropic properties as well as stability over a wide pH range. BIO-TERGE PAS-8S offers versatility in formulating industrial and institutional cleaners due to its excellent solubility in highly acidic and alkaline systems as well as good compatibility with detergent builders and bleach.
Typical Properties	<p>Appearance at 25 °C..... Clear liquid</p> <p>pH, as is ..... 5.1</p> <p>Actives (EW 242), % ..... 37.8</p> <p>Color, Gardner ..... 1</p> <p>Residual Bleach, % ..... 0.03</p> <p>Sodium Sulfate, %..... 2.0</p> <p>Pour Point, °C (°F) ..... 0 (32)</p> <p>Freeze Point, °C (°F)..... -3 (27)</p> <p>Cloud Point, as is, °C (°F) ..... 8 (46)</p> <p>Flash Point, SETA, °C (°F)..... 77 (171)</p> <p>Density, g/ml (lbs/U.S. gal)..... 1.104 (9.2)</p> <p>Viscosity at 25 °C, cps ..... 17</p> <p>Viscosity at 60°C, cps ..... 8</p> <p>Critical Micelle Concentration (mg/L)..... 10,304</p> <p>RVOC, U.S. EPA, % (Isopropanol) ..... 5 max.</p>
Biodegradability	Product is biodegradable. Additional information is available upon request.
Toxicity	BIO-TERGE PAS-8S is practically non-toxic orally (LD <sub>50</sub> > 5 g/kg) and it causes moderate skin and eye irritation at 31% active. The product is not a dermal sensitizer.
Storage & Handling	<p>Handle BIO-TERGE PAS-8S with care; use away from sparks and open flame. Use in well ventilated area. Contact with eyes, nose or prolonged skin contact should be avoided. Wash thoroughly after handling material.</p> <p><u>Standard Packaging:</u> BIO-TERGE PAS-8S is available in bulk and in 55 gallon drums (net weight: 450 lb, 205 kg).</p>



Storage &  
Handling

It is recommended that BIO-TERGE PAS-8S be stored in sealed containers and kept in a cool, dry place. If it cools below the cloud point, the product will separate. Once separated it is difficult to reconstitute even with heat and agitation. When separated the chemical properties are not affected. BIO-TERGE PAS-8S that has been stored cold may develop a haze. This is normal and does not affect its performance.

**Bulk Storage Information:** BIO-TERGE PAS-8S should be stored in vessels of 316 stainless steel or fiberglass with a corrosion liner. Material should be stored between 60 – 80 °F (16 – 27 °C). An internal hairpin coil of stainless steel with low pressure steam (under 50 psig) should be used if heating is required. Mild agitation is required if the tank is heated. Material is heat sensitive and agitation prevents localized heating. Heating may not be required for inside storage if the tank is turned over frequently. Stainless steel 316 is preferred for pumps, pipes and transfer lines.

Clearances

All components of BIO-TERGE PAS-8S are listed in the following countries; the registration numbers for the active ingredients are included in parentheses: United States (TSCA 5324-84-5), Europe (EINECS 226-195-4), Japan (ENCS 2-1640), Canada (DSL 5324-84-5), Australia (AICS 5324-84-5), Korea (ECL Serial No. KE-31559), Philippines (PICCS 5324-84-5), and China (IECSC 5324-84-5).

BIO-TERGE PAS-8S is USDA authorized as an ingredient in cleaning compounds for use in food processing plants.

BIO-TERGE PAS-8S is available as Kosher certified.

BIO-TERGE PAS-8S meets the U.S. EPA Safe Choice Program's surfactant screen and is listed on [www.cleangredients.org](http://www.cleangredients.org) (an on-line database for green formulators). For further information, visit [www.cleangredients.org](http://www.cleangredients.org). Additional Stepan ingredient listing can be found at [www.stepan.com](http://www.stepan.com).

**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.**

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. STEPAN COMPANY MAKES NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR USE, AND NO WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED, IS MADE, INCLUDING REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY, ACCURACY, COMPLETENESS, ADEQUACY OR OTHERWISE. Stepan Company (and its employees, subsidiaries and affiliates) shall not be liable (regardless of fault) to the vendee, its employees, or any other party in respect of this information, including in respect of its accuracy, completeness, adequacy, furnishing, use, or reliance upon, and the vendee assumes and releases Stepan Company (and its employees, subsidiaries and affiliates) from all liability, whether in tort, contract or otherwise to the fullest extent possible under the relevant law.

**Stepan**   
**Corporate Headquarters**  
**Northfield, Illinois 60093, U.S.A.**  
**Phone: 847-446-7500**  
**Fax: 874-501-2100**  
**Website: [www.stepan.com](http://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**