

Product Bulletin

BIO-TERGE® PAS-8S

Product Name																															
Chemical Structure	RCH ₂ -SO ₃ Na R=C ₇																														
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	<table border="0"> <tr> <td>Appearance at 25°C.....</td> <td>Clear liquid</td> </tr> <tr> <td>pH, as is.....</td> <td>5.1</td> </tr> <tr> <td>Actives (EW 242), %</td> <td>37.8</td> </tr> <tr> <td>Color, Gardner</td> <td>1</td> </tr> <tr> <td>Residual Bleach, %.....</td> <td>0.03</td> </tr> <tr> <td>Sodium Sulfate, %.....</td> <td>2.0</td> </tr> <tr> <td>Pour Point, °C (°F).....</td> <td>0 (32)</td> </tr> <tr> <td>Freeze Point, °C (°F).....</td> <td>-3 (27)</td> </tr> <tr> <td>Cloud Point, as is, °C (°F).....</td> <td>8 (46)</td> </tr> <tr> <td>Flash Point, SETA, °C (°F).....</td> <td>77 (171)</td> </tr> <tr> <td>Density, g/ml (lbs/U.S. gal).....</td> <td>1.10 (9.2)</td> </tr> <tr> <td>Viscosity at 25°C, cps</td> <td>17</td> </tr> <tr> <td>Viscosity at 60°C, cps</td> <td>8</td> </tr> <tr> <td>Critical Micelle Concentration (mg/L).....</td> <td>10,304</td> </tr> <tr> <td>RVOC, U.S. EPA, % (Isopropanol).....</td> <td>5 max.</td> </tr> </table>	Appearance at 25°C.....	Clear liquid	pH, as is.....	5.1	Actives (EW 242), %	37.8	Color, Gardner	1	Residual Bleach, %.....	0.03	Sodium Sulfate, %.....	2.0	Pour Point, °C (°F).....	0 (32)	Freeze Point, °C (°F).....	-3 (27)	Cloud Point, as is, °C (°F).....	8 (46)	Flash Point, SETA, °C (°F).....	77 (171)	Density, g/ml (lbs/U.S. gal).....	1.10 (9.2)	Viscosity at 25°C, cps	17	Viscosity at 60°C, cps	8	Critical Micelle Concentration (mg/L).....	10,304	RVOC, U.S. EPA, % (Isopropanol).....	5 max.
Appearance at 25°C.....	Clear liquid																														
pH, as is.....	5.1																														
Actives (EW 242), %	37.8																														
Color, Gardner	1																														
Residual Bleach, %.....	0.03																														
Sodium Sulfate, %.....	2.0																														
Pour Point, °C (°F).....	0 (32)																														
Freeze Point, °C (°F).....	-3 (27)																														
Cloud Point, as is, °C (°F).....	8 (46)																														
Flash Point, SETA, °C (°F).....	77 (171)																														
Density, g/ml (lbs/U.S. gal).....	1.10 (9.2)																														
Viscosity at 25°C, cps	17																														
Viscosity at 60°C, cps	8																														
Critical Micelle Concentration (mg/L).....	10,304																														
RVOC, U.S. EPA, % (Isopropanol).....	5 max.																														
Biodegradability	Product is biodegradable. Additional information is available upon request.																														
Toxicity	BIO-TERGE PAS-8S is practically non-toxic orally (LD ₅₀ > 5 g/kg) and it causes moderate skin and eye irritation at 31% active. The product is not a dermal sensitizer.																														
Storage & Handling	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.																														

Standard Packaging: BIO-TERGE PAS-8S is available in bulk and in 55-gallon drums.



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

The international inventories (country clearances) of BIO-TERGE PAS-8S 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.

BIO-TERGE PAS-8S is exempt from the requirement of a tolerance under 40 CFR 180.940a, 180.940b, & 180.940c at end-use concentrations of no more than 121 ppm, 781 ppm, and 821 ppm, respectively, when ready for use. These CFR sections should be consulted for complete context before any conclusion is made as to the allowed regulated use.

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 (an on-line database for green formulators). For further information, visit www.cleangredients.org. Additional Stepan ingredient listing can be found at www.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.



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, nor shall be construed as a recommendation to infringe any patents. STEPAN COMPANY MAKES NO PRODUCT WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR USE, EXPRESS OR IMPLIED, AND NO OTHER WARRANTY OR GUARANTY, EXPRESS OR IMPLIED, IS MADE, INCLUDING AS TO INFORMATION REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY, ACCURACY, COMPLETENESS, OR ADEQUACY. Stepan Company (and its employees, subsidiaries and affiliates) shall not be liable (regardless of fault) to the vendee, its employees, or any other party for any direct, indirect, special, or consequential damages arising out of or in connection with the information provided herein, including in respect of its accuracy, completeness, adequacy, furnishing, use, or reliance upon such information. 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

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**