Stepan



Product Bulletin

STEPAN EUROPE

Product Name

BIO-TERGE® AS-40 HASB

EC Number

931-534-0

Chemical Structure

H₃C
$$= 5-6$$

Chemical Designation

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts

INCI Name

Sodium C14-16 Olefin Sulfonate

Applications

BIO-TERGE AS-40 HASB is an aqueous solution of sodium olefin sulfonate which is produced by the continuous sulfonation of alpha olefins via Stepan's falling film process. Stepan's process minimizes the formation of disulfonates thereby offering a consistent high-quality product.

BIO-TERGE AS-40 HASB is an ideal surfactant for a variety of detergent and personal care applications. It offers the formulator excellent viscosity and foam characteristics, as well as improved mildness over lauryl sulphates. It is more stable than alcohol sulphates over a broad pH range.

Typical Properties

Appearance at 25°C	Clear liquid
Active (EW 320), %	38.0
Sodium Sulfate, %	<1.0
Unsulfonated Matter, %	<1.8
Color Klett, 5% active in water	<80
Viscosity at 25°C, cps	<500
pH, 10% in H ₂ O	
Density at 25°C, g/ml (lbs/U.S. gal)	1.07 (8.92)
Free Alkali (as NaOH)	0.3
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Environmental Effects

BIO-TERGE AS-40 HASB is readily biodegradable. See SDS for more information.

Storage & Handling

Normal safety precautions (i.e., the use of gloves and safety goggles, adapted personal protective equipment) should be employed when handling BIO-TERGE AS-40 HASB. Contact with eyes, nose or prolonged skin contact should be avoided. Wash thoroughly after handling material.

Standard Packaging: BIO-TERGE AS-40 HASB is available in bulk, drum and IBC quantities.

<u>Non-Bulk Storage Recommendations:</u> BIO-TERGE AS-40 HASB should be stored in closed containers and kept in a cool and dry place. At room temperature, the slow formation of a light precipitate in the raw material, which consists of Iron hydroxide and Iron Oxide Hydrate (in few ppm quantities) is normal.

Storage at lower temperature will yield a precipitate which increases as the storage temperature falls. Storage below 15°C (59°F) can produce a precipitate that may gel on warming. Precipitates do not affect the performance and application properties of the product but can lead to variation in % active within the container. If product is exposed to cold temperature, the material should be heated throughout (up to 50°C/122°F) and homogenized before use. After reheating and homogenization, it is possible that a slight

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remaining haziness may be observed but this will not affect the product performance. Avoid heating above 50°C (122°F) and avoid holding the product for prolonged periods above 50°C (122°F).

Workplace Exposure Occupational exposure can occur primarily through skin contact or via inhalation of vapours and mists. Engineering controls, personal protective equipment, and other workplace safety practices should be used to control these exposures. See SDS for more information.

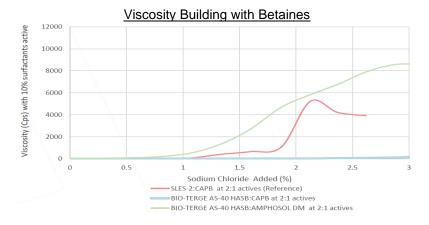
Global Inventories It is the responsibility of the formulator to review and comply with the chemical and safety control regulations for each country where the end-product is intended to be sold or used.

Formulation

FROTHY FROG BODY WASH

Formulation #1503

INGREDIENTS:	% by weight	<u>Functionality</u>
Deionized Water	q.s. to 100	Carrier
BIO-TERGE AS-40 HASB	17.5	Primary surfactant
AMPHOSOL® DM/MB	11.1	Secondary surfactant
STEPAN-MILD® GCC-FL/MB	0.8	Skin feel, viscosity builder
Citric Acid (50% Solution)	q.s.	pH Adjuster
Fragrance, preservative, dye	q.s.	Additives



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.

For Additional Assistance

For applications or product handling assistance, call our Corporate Offices at (33) 4-76-50-5160. For ordering assistance, call our Customer Service Department at (33) 4-76-50-5100 or tech.service@stepan.com.

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