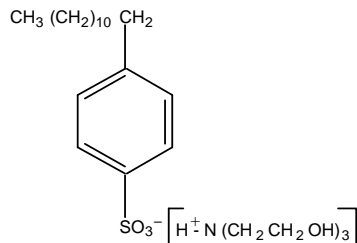


### Product Name

## BIO-SOFT<sup>®</sup> N-300

### Chemical Structure



### Triethanolamine Dodecylbenzene Sulfonate

### CAS Registry No.

27323-41-7

### INCI Name

TEA - Dodecylbenzene Sulfonate

### Applications

BIO-SOFT N-300 is a 60% active aqueous solution of biodegradable triethanolamine linear alkylate sulfonate. BIO-SOFT N-300 is produced via Stepan's continuous SO<sub>3</sub> sulfonation process, which yields a high purity product.

BIO-SOFT N-300 exhibits excellent wetting, foaming, and deterative properties. BIO-SOFT N-300 is used for shampoo and bubble bath formulations where a low cloud point anionic is desired.

BIO-SOFT N-300 was developed for oily hair shampoos. It provides effective removal of oil without stripping the hair.

### Typical Properties

Appearance at 25°C.....	Clear yellow fluid
Actives, % (MW 466) .....	60.0
pH, 1% aqueous .....	7.13
Color, % T at 420 nm.....	73
Cloud Point (as is), °C (°F).....	-8 (17)
Flash Point (PMCC), °C (°F) .....	>94 (>201)
Pour Point, °C (°F) .....	-9 (16)
Freeze Point, °C (°F).....	-12 (10)
Boiling Point, °C (°F).....	> 93 (> 200)
Viscosity, cps at 0°C .....	16,000
Viscosity, cps at 25°C .....	2,238
Viscosity, cps at 60°C .....	250
Odor .....	Mild
Density, g/ml (lbs/U.S. gal).....	1.079 (9.0)
RVOC, U.S. EPA, % .....	0

### Biodegradability

Product is biodegradable. A detailed biodegradability statement is available upon request.

### Toxicity

BIO-SOFT N-300 is slightly toxic orally (LD<sub>50</sub> = 1653 mg/kg) and causes slight skin and moderate eye irritation.

BIO-SOFT<sup>®</sup> is a registered trademark of Stepan Company.



## Storage & Handling

Normal safety precautions (i.e. gloves and safety goggles) should be employed when handling BIO-SOFT N-300. Contact with the eyes and prolonged contact with the skin should be avoided. Wash thoroughly after handling material.

It is recommended that BIO-SOFT N-300 be stored in sealed containers and kept at temperatures between 40°F (4°C) and 110°F (43.3°C). Avoid overheating or freezing. If material is frozen, mild heat and agitation are recommended to ensure the material is homogeneous before use.

Bulk Storage Information: Tanks made of 316 stainless steel or fiberglass with an Atlac 382 corrosion liner are recommended. Gear pumps and piping should be 316 stainless steel. Recommended storage for bulk tanks is 90-100°F (32-38°C).

Standard Packaging: BIO-SOFT N-300 is available in bulk and 55 gallon drums (net weight 450 lb/204 kg).

## Clearances

All components of BIO-SOFT N-300 are listed in the following countries; the registration numbers for the active ingredients are included in parentheses: Europe (EINECS 248-406-9), Japan (ENCS 3-1884), Canada (DSL 27323-41-7) and Australia (AICS 27323-41-7).

BIO-SOFT N-300 is available as Kosher Certified.

## Additional Safety Information

A Material Safety Data Sheet is available upon request.

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