



## Product Bulletin

Product Name	<b>BIO-SOFT<sup>®</sup> N-600</b>
Chemical Description	Nonionic Blend
CAS Registry Number	66455-14-9
INCI Name	Alcohols, C12-13 Ethoxylated
Applications	Wetting, Emulsification, Degreasing booster when used with higher HLB surfactants, Industrial Cleaners, and Detergents
Typical Properties	<p>Appearance at 25 °C ..... Clear to slightly hazy liquid</p> <p>Actives, % ..... 100</p> <p>Hydroxyl Value, mg KOH/g ..... 134</p> <p>pH, 1% in Water ..... 6.5</p> <p>Color APHA ..... 10</p> <p>HLB ..... 10.6</p> <p>Molecular Weight, g/mol ..... 410</p> <p>EO Content, weight % ..... 53</p> <p>Melting Range, °C (°F) ..... 16 (61)</p> <p>Viscosity at 25 °C, cps ..... 70</p> <p>Viscosity at 38 °C, cps ..... 30</p> <p>Flash Point (PMCC), °C (°F) ..... &gt; 94 (&gt; 201)</p> <p>Cloud Point (1% in Water), °C, (°F) ..... &lt; 25 (&lt; 77)</p> <p>Pour Point, °C, (°F) ..... 5 (41)</p> <p>Density at 25 °C, g/mL (lbs/U.S. gal) ..... 0.928 (7.74)</p> <p>Density at 38 °C, g/mL (lbs/U.S. gal) ..... 0.918 (7.66)</p> <p>Critical Micelle Concentration (CMC), mg/L ..... 10</p> <p>Surface Tension at CMC, dynes/cm ..... 28</p> <p>Draves Wetting at 25 °C (0.1% in Water), sec ..... 15</p> <p>Draves Wetting at 60 °C (0.1% in Water), sec ..... 13</p> <p>RVOC, U.S. EPA, % ..... 0</p> <p>Preservative ..... None required</p>
Environmental Effects	BIO-SOFT N-600 is expected to be readily biodegradable. Additional information is available upon request.
Health Effects	BIO-SOFT N-600 is slightly toxic orally (LD50 > 2,000 mg/kg), and at 10% active causes slight skin and moderate eye irritation.
Storage & Handling	<p><u>Standard Packaging:</u> BIO-SOFT N-600 is available in drums (400 lb, 182 kg), totes (2050 lb, 932 kg), and in bulk quantities.</p> <p><u>Non-Bulk Storage Recommendations:</u> BIO-SOFT N-600 should be stored in closed containers and kept in a cool, dry place away from incompatible materials (see Section 10 of the SDS). If material is frozen it should be heated gently and stirred to ensure it is homogeneous before use.</p>



**Bulk Storage Recommendations:** BIO-SOFT N-600 should be stored in vessels of 316 stainless steel or fiberglass with a corrosion liner. Heating and agitation are recommended for outside storage. Material should be stored between 80-100 °F (27-38 °C). An internal hairpin coil of 316 stainless steel with low pressure steam (under 50 psig) should be used if heating is required. Pumps, pipes and transfer lines should be 316 stainless steel.

Normal safety precautions (i.e., gloves and safety goggles) should be employed when handling BIO-SOFT N-600. Contact with eyes, nose or prolonged contact with skin should be avoided. Wash thoroughly after handling BIO-SOFT N-600.

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 BIO-SOFT N-600 are listed in the following countries; the registration numbers for the active ingredients are included in parentheses: Australia (AICS 66455-14-9), Canada (DSL 66455-14-9), China (IECSC 66455-14-9), Japan (ENCS 7-97), Korea (ECL Serial No. KE-13386), New Zealand (NZIoC 66455-14-9), Philippines (PICCS 66455-14-9), and United States (TSCA 66455-14-9).

**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.



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