



Product Bulletin

Product Name	BIO-SOFT[®] N-1200																																												
Chemical Description	Nonionic Blend																																												
CAS Registry Number	68439-46-3 and 68131-39-5																																												
INCI Name	Alcohols, C9-11, Ethoxylated and Alcohols, C12-15, Ethoxylated																																												
Applications	Dairy farm teat dip sanitizer, Iodophor stabilization, Emulsification, Fragrance Oil Solubilizer, Laundry Detergent and Industrial Cleaners																																												
Typical Properties	<table border="0"> <tr> <td>Appearance at 25 °C</td> <td>Hazy liquid</td> </tr> <tr> <td>Actives, %</td> <td>95</td> </tr> <tr> <td>Hydroxyl Value, mg KOH/g</td> <td>96</td> </tr> <tr> <td>pH, 1% in Water</td> <td>6.5</td> </tr> <tr> <td>Color APHA</td> <td>10</td> </tr> <tr> <td>HLB</td> <td>13.5</td> </tr> <tr> <td>Molecular Weight, g/mol</td> <td>585</td> </tr> <tr> <td>EO Content, weight %</td> <td>67</td> </tr> <tr> <td>Melting Point, °C (°F)</td> <td>< 18 (< 64)</td> </tr> <tr> <td>Viscosity at 25 °C, cps</td> <td>70</td> </tr> <tr> <td>Viscosity at 38 °C, cps</td> <td>45</td> </tr> <tr> <td>Flash Point (PMCC), °C (°F)</td> <td>> 94 (> 201)</td> </tr> <tr> <td>Cloud Point (1% in Water), °C, (°F)</td> <td>80 (176)</td> </tr> <tr> <td>Pour Point, °C, (°F)</td> <td>18 (64)</td> </tr> <tr> <td>Density at 25 °C, g/mL (lbs/U.S. gal)</td> <td>1.01 (8.41)</td> </tr> <tr> <td>Density at 38 °C, g/mL (lbs/U.S. gal)</td> <td>1.00 (8.83)</td> </tr> <tr> <td>Critical Micelle Concentration (CMC), dynes/cm</td> <td>19</td> </tr> <tr> <td>Surface Tension at CMC, dynes/cm</td> <td>33</td> </tr> <tr> <td>Draves Wetting at 25 °C (0.1% in Water), sec</td> <td>18</td> </tr> <tr> <td>Draves Wetting at 60 °C (0.1% in Water), sec</td> <td>11</td> </tr> <tr> <td>RVOC, U.S. EPA, %</td> <td>0</td> </tr> <tr> <td>Preservative</td> <td>None required</td> </tr> </table>	Appearance at 25 °C	Hazy liquid	Actives, %	95	Hydroxyl Value, mg KOH/g	96	pH, 1% in Water	6.5	Color APHA	10	HLB	13.5	Molecular Weight, g/mol	585	EO Content, weight %	67	Melting Point, °C (°F)	< 18 (< 64)	Viscosity at 25 °C, cps	70	Viscosity at 38 °C, cps	45	Flash Point (PMCC), °C (°F)	> 94 (> 201)	Cloud Point (1% in Water), °C, (°F)	80 (176)	Pour Point, °C, (°F)	18 (64)	Density at 25 °C, g/mL (lbs/U.S. gal)	1.01 (8.41)	Density at 38 °C, g/mL (lbs/U.S. gal)	1.00 (8.83)	Critical Micelle Concentration (CMC), dynes/cm	19	Surface Tension at CMC, dynes/cm	33	Draves Wetting at 25 °C (0.1% in Water), sec	18	Draves Wetting at 60 °C (0.1% in Water), sec	11	RVOC, U.S. EPA, %	0	Preservative	None required
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Environmental Effects	BIO-SOFT N-1200 is expected to be readily biodegradable. Additional information is available upon request.																																												
Health Effects	BIO-SOFT N-1200 is slightly toxic orally (LD50 > 2,000 mg/kg), and at 10% active causes minimal skin and eye irritation.																																												
Storage & Handling	<p><u>Standard Packaging:</u> BIO-SOFT N-1200 is available in drums (430 lb, 195 kg), totes (2205 lb, 1002 kg), and in bulk quantities.</p> <p><u>Non-Bulk Storage Recommendations:</u> BIO-SOFT N-1200 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-1200 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-1200. Contact with eyes, nose or prolonged contact with skin should be avoided. Wash thoroughly after handling BIO-SOFT N-1200.

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-1200 are listed in the following countries; the registration numbers for the active ingredients are included in parentheses: Australia (AICS 68439-46-3, 68131-39-5), Canada (DSL 68439-46-3, 68131-39-5), China (IECSC 68439-46-3, 68131-39-5), Japan (ENCS 7-97), Korea (ECL Serial No. KE-13383, KE-13388), New Zealand (NZIoC 68439-46-3, 68131-39-5), Philippines (PICCS 68439-46-3, 68131-39-5), and United States (TSCA 68439-46-3, 68131-39-5).

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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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 Company USA **+1-800-745-7837**
 Stepan Canada **+1-705-330-3367**
 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 Company USA **+1-800-457-7673**
 Stepan Canada **+1-800-461-5000**
 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**

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