Stepan_®

Product Bulletin

BIO-SOFT[®] N25 SERIES

 $CH_3(CH_2)_n - O(CH_2CH_2O)_y H$

Functional Properties

foam production

End Product Uses · Laundry products

Excellent wetting agents

• Detergent

Textiles

n = 11-14 y = average moles of ethoxylation

68131-39-5

Alcohol ethoxylates based on a synthetic C12-15 alcohol base

Description Applications

Chemical

Registry No.

Product Name Chemical

Structure

CAS

Typical Properties

Hard surface cleanersPaints	 Rug cleaners HI&I machine-based, low foam cleaning (BIO-SOFT N25-3 only) 	
	BIO-SOFT N25-3	BIO-SOFT N25-7
Appearance at 25 °C	Clear to slightly hazy liquid	Clear liquid to white paste
Average No. Moles EO		7.25
		12.2
pH, 5% aqueous		—
	0.926 (7.71)	0.960 (8.00)
		99.5 min.
Color, APHA	50 max.	50 max.
Pour Point, °C (°F)	8 max (46 max.)	17-21 (63-70)
Viscosity at 38 °C (100 °F), cps		29
Cloud Point (1% aqueous), °C (°F)	N/A	46-54 (115-129)
Flash Point, PMCC, °C (°F)		>94 (>201)
RVOC, U.S. EPA, %		0
Preservative	Not required	Not required

Appearance at 25 °C	. white paste
Average No. Moles EO	
HLB	13.3
pH, 1% Aqueous	5.5-6.5
Density, g/ml (lbs/U.S. gal)	0.960 (8.00)
Actives, %	99.5 min.
Color, APHA	50 max.
Pour Point, °C (°F)	22-26 (72-79)
Viscosity at 38 °C (100 °F), cps	
Cloud Point (1% Aqueous), °C (°F) 68	

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· Hand dishwashing presoaks

The BIO-SOFT N25 series is a line of high active nonionic surfactants. The BIO-SOFT N25 series products are stable in both aqueous acidic and alkaline solutions, allowing for application in a wide range of products. The alcohol ethoxylates containing between one and five moles of ethoxylation are primarily useful in oil-based systems.

Pesticides

Emulsification

 Solubilizer Low (BIO-SOFT N25-3) to moderate
 Can be used in conjunction with anionic, amphoteric

(BIO-SOFT N25-7, BIO-SOFT N25-9) and cationic surfactants



ß	Flash Point, PMCC, °C (°F)		
Biodegradability	The BIO-SOFT N25 Series products are readily biodegradable. A detailed biodegradability statement is available upon request.		
Toxicity	The BIO-SOFT N25 Series products are slightly toxic orally (LD₅0 ≥1800mg/kg). Undiluted the BIO-SOFT N25 Series products are severe skin and eye irritants while a 1% dilution generally causes slight to mild skin irritation. A detailed mammalian toxicity statement is available upon request.		
Storage & Handling	Normal safety precautions (i.e., gloves, safety goggles) should be employed when handling BIO-SOFT N25 Series products. Avoid contact with eyes, nose or prolonged skin contact. Wash exposed areas thoroughly after handling material.		
	While diluting the BIO-SOFT N25 Series products, as with all alcohol ethoxylates, they are prone to gelling. If the product is diluted into water, heating may be required to minimize or eliminate gel formation.		
	It is recommended that the BIO-SOFT N25 Series products be stored in sealed containers and kept in a cool, dry place. If the products are frozen, they should be heated gently and stirred to ensure they are homogeneous before use.		
	Standard Packaging: The BIO-SOFT N25 Series products are available in 55-gallon drums (450lb/205 kg) and in bulk quantities.		
Clearances	All components of the BIO-SOFT N25 Series products are listed in the following countries; the registration number of the active ingredient is listed in parentheses: United States (TSCA 68131-39-5), Europe (NLP 500-084-3), Canada (DSL 68131-39-51), Australia (AICS 68131-39-5), Korea (ECL KE-13388) and Philippines (PICCS 68131-39-5).		
	The BIO-SOFT N25 Series is available as Kosher Certified.		
	The BIO-SOFT N25 Series is approved for use under EPA 40CFR 180.910, pre- and post-harvest, 180.930.		
	BIO-SOFT N25-7 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 (an on-line database for green formulators). For further information, visit 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	A Safety Data Sheet is available upon request.		
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