

NAT SURFACT[®]

Grade: CCB

50% solution of the sodium salt of rhamnolipids in water at pH 7
 CAS Numbers: 37134-61-5 and 4348-76-9
 INCI Listing: RHAMNOLIPIDS

Specifications	
Characteristic	Range
Appearance	Dark brown, viscous liquid
Rhamnolipid concentration	48 – 52%
Rhamnolipids that are mono-	35 – 45% (remainder are di-)
CMC	80 – 120 mg/L (solids basis)
Moisture	45 – 49%
pH	6.9 – 7.1
Viscosity	3,000 – 4,000 cP
Sodium chloride	0.2 – 0.3%
Triacylglyceride oil	1 – 2%
Elemental analysis (C, H, N, and Na and heavier)	
Carbon	30 – 32%
Hydrogen	9 – 11%
Nitrogen	0.2 – 0.4%
Excess sodium	1.4 – 1.5%
Magnesium	< 0.1%
Aluminum	< 0.02%
Silicon	< 0.01%
Phosphorous	< 0.05%
Sulfur	< 0.02%
Potassium	< 0.01%
Copper	< 5 ppm
Zink	< 2 ppm

0.4% Benzyl alcohol added as a broad spectrum antimicrobial preservative.

For more information please contact: Dan Derr, Ph.D. 858-336-5084 dan@natsurfact.com

NatSurFact Laboratories / 2731 Prosperity Avenue, Suite C / Fairfax, VA 22031

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