# Stepan

## **Product Bulletin**

Product Name			
Chemical Structure	$CH_{3}$ $CH_{3}(CH_{2})_{x} - N \rightarrow O$ $CH_{3} \qquad x = 13 \text{ (predominately)}$		
Chemical Description	Myristyl Dimethylamine Oxide		
CAS Registry No.	3332-27-2		
INCI Name	Myristamine Oxide		
Applications	Functional Properties• Cleansing Agent• Emollient• Foam Booster• Emulsifier• Foam Stabilizer• Acid & Alkali Stable• Hair Conditioning Agent• Viscosity Booster• Bleach Stable		
	End Product Uses•Shaving Creams•Hair Conditioners•Shabble Baths•Facial Masks (Mud Packs)•Hand Soaps•Household Products•Industrial & Institutional Products		
Typical Properties	Appearance at 25 °C		
Biodegradability	Product is biodegradable. A detailed biodegradability statement is available upon request.		
Toxicity	AMMONYX MO is practically non-toxic orally (LD <sub>50</sub> >5g/kg) and is moderately irritating to skin. The product is minimally irritating to eyes at 2% active.		
Storage & Handling	Normal safety precautions (i.e., gloves and safety goggles) should be employed when handling AMMONYX MO. Contact with the eyes and prolonged contact with the skin should be avoided. Wash thoroughly after handling material.		
	It is recommended that AMMONYX MO be stored in sealed containers and kept at temperatures not lower than 50 °F (10 °C) nor higher than 120 °F (49 °C). Avoid overheating or freezing. If material is frozen, mild heat and agitation are recommended to ensure the material is homogeneous before use.		
	Standard Packaging: AMMONYX MO is available in bulk and 55 gallon fiber open head liquipak drums (net weight 425 lb/193 kg).		
Clearances	All components of AMMONYX MO are listed in the following countries; the registration numbers for the active ingredients are included in parentheses: Europe (EINECS 222-059-3), Japan (ENCS 2-198), Canada (DSL 3332-27-2), Australia (AICS 3332-27-2), Korea (98-3-970) and United States (TSCA listed).		
	AMMONYX <sup>®</sup> , AMPHOSOL <sup>®</sup> , BIO-TERGE <sup>®</sup> and NINOL <sup>®</sup> are registered trademarks of the Stepan Company.		
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AMMONYX<sup>®</sup> is a trademark of Stepan Company.





### **CONDITIONING HAND SOAP**

Ingredients		Wt, % (as is)	<b>Function</b>
1.	BIO-TERGE <sup>®</sup> AS-40	23.30	Primary Surfactant
2.	AMMONYX MO	5.00	Conditioning Agent
3.	NINOL <sup>®</sup> 96-SL	3.50	Viscosity & Foam Enhancer
4.	AMPHOSOL <sup>®</sup> CA	1.00	Conditioning Agent
5.	Polyquaternium-7	0.25	Film Former
6.	Citric Acid (50%)	q.s.	pH Adjuster
7.	Dye, Preservative, Fragrance	q.s.	Additives
8.	Sodium Chloride	q.s.	Viscosity Adjuster
9.	D.I. Water	q.s. to 100.0	Solvent, Carrier

#### Mixing Procedure:

Add first five ingredients to water, heat to 60 °C (140 °F), blend until homogeneous. Adjust pH to 6.0-7.0 with citric acid. Add fragrance, dye and preservative, as desired. Adjust to desired viscosity with Sodium Chloride.

#### **Physical Properties:**

pH, as is	6.0 - 7.0
Appearance at 25 °C	
Viscosity Profile:	
As is	1,000 cps
with 0.5% Sodium Chloride	13,300 cps
with 1.0% Sodium Chloride	25,300 cps

Product Stewardship

Additional Safety Information

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Supersedes:

This product bulletin has been written in accordance with ACC's Product Stewardship guidelines.

A Safety Data Sheet is available upon request.



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