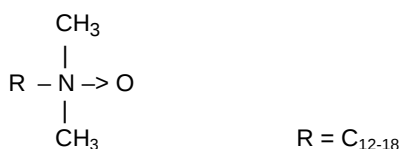


Product Bulletin

Product
Name

AMMONYX[®] MCO

Chemical
Structure



CAS
Registry No.

68955-55-5

INCI Name

Myristamine Oxide

Applications

Functional Properties

- Cleansing Agent
- Emulsifier
- Hair Conditioning Agent
- Foam Booster
- Viscosity Builder
- Can be formulated with anionic, nonionic and cationic products

End Product Uses

- Shampoos
- Bubble Baths
- Hand Soaps
- Hair Conditioners
- Cream Rinses
- Creams and Lotions
- Shaving Creams
- Household Products
- Industrial & Institutional Products

Typical
Properties

Appearance at 25°C.....	Clear fish-eye gel
Amine Oxide (MW 268), %.....	30
Free Amine (MW 252), %.....	0.5
Hydrogen Peroxide, %.....	0.1
Color (APHA), as is.....	60
pH, 10% aqueous.....	8.0
Viscosity at 25°C, cps.....	5098
Viscosity at 60°C, cps.....	365
Freeze Point, °C (°F).....	10 (50)
Flash Point (PMCC), °C (°F).....	>94 (>201)
Boiling Point, °C (°F).....	100 (212)
Density, g/ml (lbs/U.S. gal).....	0.959 (8.0)
RVOC, U.S. EPA, %.....	0
Preservative.....	Not required

Biodegradability

Product is readily biodegradable. A detailed biodegradability statement is available upon request.

Toxicity

AMMONYX MCO is practically non-toxic orally (LD₅₀ = 5.6 g/kg) and causes mild skin irritation at 10% active and mild to moderate eye irritation at 5% active.

Storage &
Handling

Normal safety precautions (i.e. gloves and safety goggles) should be employed when handling AMMONYX MCO. Contact with the eyes and prolonged contact with the skin should be avoided.

It is recommended that AMMONYX MCO be stored in sealed containers and kept at temperatures not lower than 10°C (50°F) or higher than 48°C (120°F). Avoid overheating or freezing.

Bulk Storage Information: Tanks, with a conservation vent, made of 316L stainless steel or fiberglass with an Atlac 382 corrosion liner are recommended. Centrifugal or positive displacement gear pumps and piping should be 316L stainless steel. Recommended storage for bulk tank is 68-86°F (20-30°C).

Standard Packaging: AMMONYX MCO is available in bulk and 55 gallon drums (net weight 425 lb/193 kg).

AMMONYX[®] is a registered trademark of the Stepan Company.



Clearances

All components of AMMONYX MCO are listed in the following countries; the registration numbers for the active ingredients are included in parentheses: Europe (EINECS 273-281-2), Canada (DSL 68955-55-5), Australia (AICS (68955-55-5), United States (TSCA 68955-55-5), and Japan (ENCS 2-198).

Additional Safety Information

A Material Safety Data Sheet is available upon request.

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Stepan

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