

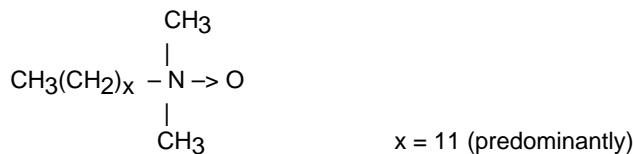


Product Bulletin

Product Name

AMMONYX[®] LO Special

Chemical Structure



Chemical Description

AMMONYX LO Special is a naturally-derived Lauramine Oxide. Stepan defines naturally-derived as made from biorenewable feedstock (derived from plant, animal or marine sources).

CAS Registry No.

1643-20-5

INCI Name

Lauramine Oxide

Applications

Functional Properties

- Foam Enhancer
- Foam Stabilizer
- Viscosity Builder
- Lubricant*
- Bleach Stable
- Can be formulated with anionic, nonionic and cationic materials. (*For the textile industry)
- Emulsifier*
- Wetting Agent*
- Dye Dispersant*
- Acid Stable

End Product Uses

Personal Care

- Shampoos
- Handsoaps
- Bath Products
- Creams & Lotions
- Hair Conditioners

Household, I&I

- Dishwashing Detergents
- Cleansers
- Hard Surface Cleaners (which contain acids or bleach)

Typical Properties

Appearance at 25°C	Clear liquid
pH (10% aqueous)	6.5-8.0
Amine Oxide (MW 251), %.....	30
Free Amine (MW 232), %.....	1.0 max.
Free Peroxide, %	0.2 max.
Cloud Point (as is), °C (°F).....	-7 (19)
Boiling Point, °C (°F)	100 (212)
Flash Point (PMCC), °C (°F)	>94 (>201)
Viscosity at 25°C, cps	77
Density, g/ml (lbs/U.S. gal).....	0.99 (8.05)
R VOC, U.S. EPA, %.....	0
Preservative	Not required

Biodegradability

AMMONYX LO Special is readily biodegradable. A detailed biodegradability statement is available upon request.

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



Toxicity

The available toxicity data shows AMMONYX LO Special to be slightly toxic orally to rats, (LD₅₀ = 3600 mg/kg). At 2.5% active, AMMONYX LO Special may cause severe eye irritation and minimal irritation to the skin.

Storage & Handling

Normal safety precautions (i.e. gloves and safety goggles) should be employed when handling AMMONYX LO Special. Contact with the eyes and prolonged contact with the skin should be avoided. Wash hands thoroughly after handling material.

It is recommended that AMMONYX LO Special 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.

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 tanks is 20-52°C (68-125°F).

Standard Packaging: AMMONYX LO Special is available in bulk, totes and 55 gallon drum quantities.

Clearances

All components of AMMONYX LO Special are listed in the following countries; the registration numbers for the active ingredients are included in parentheses: United States (TSCA 1643-20-5), Europe (EINECS 216-700-6), Japan (ENCS 2-198), Canada (DSL 1643-20-5), Australia (AICS 1643-20-5), Korea (ECL Serial No. KE-11348), Philippines (PICCS 1643-20-5) and China (IEICS 1643-20-5).

AMMONYX LO Special is cleared for use under 40 CFR 180.910, pre- and post-harvest applications.

Additional Safety Information

A Material Safety Data Sheet is available upon request.

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