



Cola[®]Lux C-8

Octylamine Oxide

CHEMICAL NAME	Octylamine Oxide
CAS NUMBER	2605-78-9
LISTINGS	USA (TSCA); Canada (DSL); China (IECSC); Philippines (PICCS); New Zealand (NZIoC); Taiwan (TCSI)

Cola[®]Lux C-8 is an octyldimethylamine oxide from a narrow cut amine, that provides good wetting and very low foaming characteristics. It is compatible with most surfactants and because there are no amide or ester groups in its chemical structure, Cola[®]Lux C-8 will not hydrolyze in acid formulations.

Cola[®]Lux C-8 is also stable in highly alkaline and strong electrolyte systems. Cola[®]Lux C-8 is also useful in hydrogen peroxide and sodium hypochlorite formulations, providing increased strike for better performance.

BENEFITS

- Controlled foaming
- Excellent hydrotrope effect
- Hypochlorite stable
- Superior coupler
- Compatible with other surfactants

APPLICATIONS

- Acid cleaners
- Low foaming built detergents
- Hard surface cleaners
- High alkaline cleaners
- Hypochlorite
- Peroxide base cleaners
- Laundry products

TYPICAL PROPERTIES

Appearance @ 25°C	Clear Liquid
pH (10% aq)	7.0
Amine Oxide, %	41
Free Amine, %	1.0 Max.
Free Peroxide, %	0.2 Max.
Color, Gardner BYK	2.0 Max.

Cola[®]Lux C-8 is currently approved for non-food use and food use under 40 CFR 180.910 at no more than 33.3% by weight in a pesticide formulation.

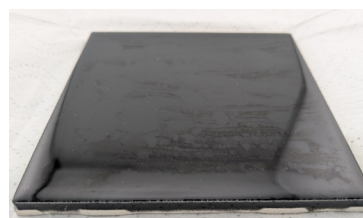


STREAKING PERFORMANCE

Streaking was evaluated in a "stress" test of 2.5% solid matter Cola[®]Lux C-8 in tap water (approximately 7.5% as supplied) applied to high gloss black tiles. Photos are taken at an angle to maximize visibility of streaks. Cola[®]Lux C-8 demonstrates modest streaking at pH 7 and is nearly streak free at pH 3 and pH 10.



Cola[®]Lux C-8 at 2.5% pH 3



Cola[®]Lux C-8 at 2.5% pH 7

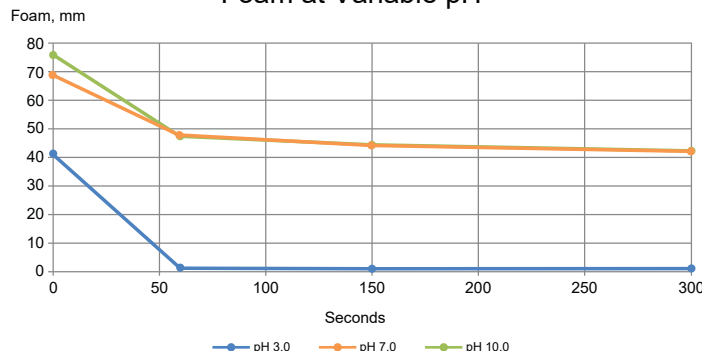


Cola[®]Lux C-8 at 2.5% pH 10

FOAM PERFORMANCE

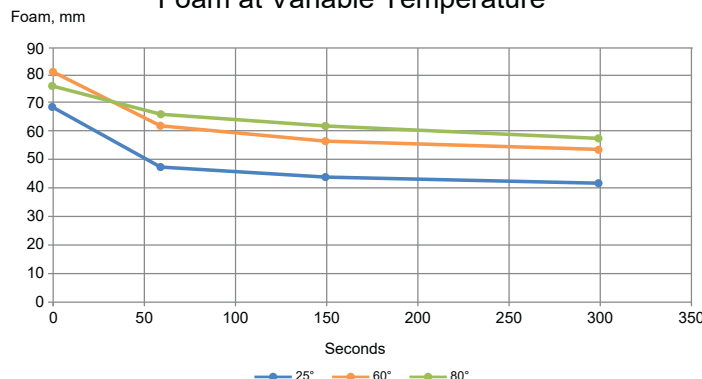
Cola®Lux C-8 generates a modest volume of over a broad range of pH and temperature. It does not exhibit a cloud point and remains low foaming even in high temperature conditions.

Foam at Variable pH



Foam was measured at 1% solids (approximately 3% as supplied) in tap water and 25°C at a variety of pH conditions using a Kruss Dynamic Foam Analyzer, DFA 100. While amine oxides are generally classified as nonionic, they can exhibit zwitterionic behavior at low pH. This shift decreases the foam potential further, making Cola®Lux C-8 especially well suited for acidic conditions.

Foam at Variable Temperature



Foam was additionally measured at room temperature (25°C), moderate temperature (60°C), and high temperature (80°C). Higher temperatures do not substantially increase the foaming potential of Cola®Lux C-8.

STORAGE / HANDLING

Cola®Lux C-8 should be stored in closed containers. Cola®Lux C-8 is shipped in 55-gallon poly drums, net weight 450 lbs (204 kg). Typical shelf life is 24 months from date of manufacture. Safety Data Sheets may be found at www.colonialchem.com.



Colonial Chemical

225 Colonial Drive • South Pittsburg, TN 37380

Phone: 423-837-8800

www.colonialchem.com

Innovative Specialty Surfactants