



# MACKAMINE® CAO

INCI Name: Cocamidopropylamine Oxide

CAS No.: 68155-09-9

EINECS: 268-938-5

## Product Description

**Mackamine CAO** is a 30% active Cocamidopropylamine Oxide that is stable over a wide pH range. It provides excellent foam boosting properties, viscosity building and foam stability in a wide spectrum of formulations. **Mackamine CAO** is especially effective when formulated with alkyl sulfates or alpha olefin sulfonates. **Mackamine CAO** also acts as a conditioning agent, having cationic character when formulated on the acid side.

## Specifications

Appearance @ 25 Deg C	Clear Liquid
Infrared Spectrum	Matches Standard
% Transmission @ 420 NM	78.0 Min
pH (As Is @ 25 Deg C)	6.5 – 8.5
Amine Oxide, % (MW = 308)	29.5 – 31.5
Hydrogen Peroxide, %	0.10 Max
Color Gardner	3 Max
Color APHA	250 Max
Free Amine, % (MW = 292)	1.0 Max

## Typical Properties

Specific Gravity @ 25°C	1.02
Total Plate Count (CFU/g)	Max 100
Gram Negative Bacteria	Absent
Glycerin, %	~3

## Principal Uses

### HI&I Uses

Light Duty Liquids (LDL)	15% - 20%
Car Wash (Brush or Bucket)	10% - 15%

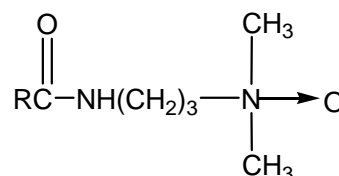
### Personal Care Uses

Shampoo	5% - 10%
Body Wash	5% - 10%
Facial Wash	2% - 5%

## Shelf Life

Shelf life 24 months from date of manufacture.

## Chemical Structure



Where RCO- represents the fatty acids from coconut oil

## Regulatory

### Mackamine CAO

TSCA:	Listed	Japan:	Not Listed
EU:	Listed	Korea:	Listed
Australia:	Listed	New Zea:	Listed
Canada:	Listed	Philipp:	Listed
China:	Listed	Swiss:	Unknown

## Storage and Handling

**Mackamine CAO** should be stored in vented containers below 30°C in a dry place out of direct sunlight. If material becomes hazy after exposure to cold gently heat to 35°C and mix before use. Handle between 25°C – 35°C.

## Packaging

Available in bulk quantities, 40 pound pails, 450 pound plastic drums, 2200 pound totes..

### WARNING

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