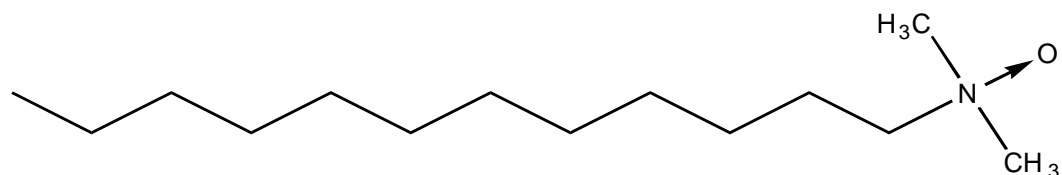


# Macat<sup>®</sup> AO-12



## Lauryl Dimethylamine Oxide

### Overview

MACAT AO-12 is a 30% active lauryl (C<sub>12</sub>) dimethylamine oxide in water. AO-12 is an effective wetting agent, outstanding foam booster and grease cutter that is hypochlorite and acid stable.

The exceptional quality of MACAT AO-12 allows for use in a wide range of markets and applications. Quality **Dishwash Detergents** utilize AO-12 for its grease cutting and rinsing performance. **HI&I Cleaners** formulations economically employ AO-12 for detergency, foam boosting and hypochlorite stability. Stable in acidic systems, AO-12 exhibits enhanced surface activity for use in acidic floor and bathroom cleaners. In **Textile** finishing, MACAT AO-12 is non-rewetting above 350°F.

Compare to Ammonyx LO, Barlox-12, Incromine Oxide L, Mackamine LO, Mazox LDA, Rhodamox L.

### INCI Name: Lauramine Oxide

### Typical Properties

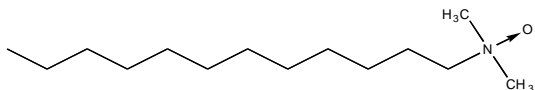
Water solubility.....	Complete
Physical form.....	Colorless liquid
Color (APHA).....	80 Maximum
Amine Oxide (m.w. 240).....	29-31%
Free Amine (m.w. 224).....	1.0% Maximum
Free Peroxide.....	1.0% Maximum
Specific gravity (25°C).....	0.97±0.04
Cloud Point .....	30°F(-1°C)
pH (10% aq.) .....	7.0±1.0
Pour Point.....	14°F(-10°C)
Flash point.....	>200°F (PMCC)
RVOC, U.S. EPA, % .....	0

### Handling Information

Refer to the Material Safety Data Sheet (MSDS) available from Mason Chemical Company for information on the safe use, handling and disposal of this product.

*Macat, Masurf and Masamide are trademarks of Mason Chemical Company.*

# Macat<sup>®</sup> AO-12



MACAT AO-12 is a 30% active lauryl (C<sub>12</sub>) dimethylamine oxide in water. AO-12 is an effective wetting agent, outstanding foam booster and grease cutter that is chlorine and acid stable. The formulations below illustrate this effect.

## ***Non-Streaking Window & Glass Cleaner***

<b>Ingredient</b>	<b>Wt%</b>
Water.....	94.62
Na <sub>4</sub> EDTA, 38%.....	0.1
<b>Macat AO-12</b> .....	0.4
Glycerine .....	0.2
Monoethanolamine (MEA) .....	0.4
Ethylene glycol monobutylether (EB).....	0.25
Isopropanol (IPA) .....	4.0
<b>Masurf FS-230</b> .....	0.03
Dye, Fragrance .....	q.s.

<b>Note</b>
Mix in order listed.
Macat AO-12 is an effective grease cutter in this high performance formulation. Glycerine provides slip for easy wiping, MEA contributes alkalinity. Alternatively, or in addition to EB, consider hexanol to moderate evaporation for streak resistance. Masurf FS-230 is a superior low surface tension wetting agent, or substitute with Masurf FS-1520 at 0.05%.

## ***Grease Cutting and Particulate Soil Lifting Liquid Dish Detergent***

<b>Ingredient</b>	<b>Wt%</b>
Water.....	77.25
Nonylphenol 9.5 ETO.....	12.0
Ammonium Lauryl Ether Sulfate, 60%.....	5.0
<b>Masamide CO</b> .....	1.5
<b>Macat AO-12</b> .....	4.0
Citric acid.....	0.25
Dye, Fragrance .....	q.s.

<b>Note</b>
Mix in order listed.
Macat AO-12 contributes foam boosting and grease cutting performance in this commercial grade particulate soil liquid dish formulation.

## ***Restroom Hard Surface Foaming Cleaner w/Bleach***

<b>Ingredient</b>	<b>Wt%</b>
Water.....	65.75
Carbopol 676 <sup>(1)</sup> .....	1.25
Potassium hydroxide, 45%.....	5.00
Potassium silicate 2:1, 39%.....	5.00
Potassium carbonate .....	5.00
Sodium hypochlorite, 12.5% .....	8.00
<b>Macat AO-12</b> .....	10.00

<b>Notes</b>
Mix in order listed.
Thickened formulation for increased contact time and effectiveness.
(1) BFGoodrich Specialty Chemicals

MACAT AO-12 is biodegradable, and contains no solvents or VOCs. All components of AO-12 are listed on the following registries: United States (TSCA, FIFRA-Inert Ingredient), Canada (DSL), Europe (EINECS 216-700-6), Australia (AICS), Japan (ENCS 2-198), China (EICS), Korea (ECL KE-11348), Philippines (PICCS) and ASIA-PAC.