



# MACKANATE<sup>®</sup> LO

INCI Name: Disodium Lauryl Sulfosuccinate

CAS No.: 26838-05-1

EINECS No.: 248-030-5

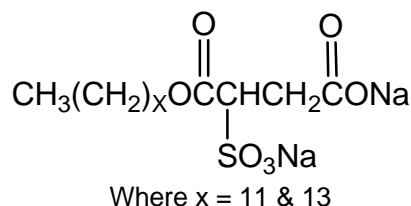
## Product Description

**Mackanate LO** is a very light colored, mild sulfosuccinate surfactant derived from lauryl alcohol. The lauryl alcohol is of vegetable origin and the overall product is >45% vegetable derived. **Mackanate LO** is sulfate and ethoxylate free making it ideal for natural based formulations. It provides very dense, voluminous foam when used to formulate personal cleansers. Unlike other sulfosuccinates it will provide good viscosity response when formulated with other anionics. Despite its high Krafft point **Mackanate LO** can be used to formulate clear products.

## Specifications

Appearance @ 25°C	White Paste
Gardner Color @ 60°C	2 Max
Odor @ 25°C	Typical
Solids %, Moisture Balance, 135°C	38.0 – 42.0
pH, 5% Aqueous @ 25°C	5.0 – 7.0
Anionic Activity %, MW 421	33.0 – 40.0
Sulfite %, EW 63	0.2 Max

## Chemical Structure



## Typical Properties

Appearance @ 60°C	Clear Liquid
Specific Gravity, @ 25°C	1.08
Bacteria, CFU/g	10 Max
Yeast & Mold, CFU/g	10 Max
Gram Negative Bacteria	Non Detected
Preservative System	
DMDM Hydantoin %	0.25
Methyl Paraben %	0.11

## Principal Uses

Shampoo	5% - 10%
Bubble Bath	10% - 15%
Sulfate Free Products	15% - 30%
Body Wash	30% - 35%

## Shelf Life

Shelf life is 24 months from date of manufacture. The pH and anionic actives should be checked every 6 months.

## Packaging

Available in bulk and 450 lb (204.1 kg) packages.

## Regulatory

### Mackanate LO

TSCA: Listed	Japan: Listed*
EU: Listed	Korea: Not Listed
Australia: Listed	New Zea: Listed
Canada: Listed DSL	Philipp: Listed
China: Listed	Swiss: No Info

\*Japan ENCS 2-1623.

## Storage and Handling

**Mackanate LO** is subject to hydrolysis. The rate is temperature sensitive, particularly as temperatures above 60°C are encountered. Storage or handling temperatures above 80°C are not recommended and will result in fairly rapid hydrolysis. The pour point is 50°C or greater, see below example. **Do not heat this product for long periods of time or use band heaters.**



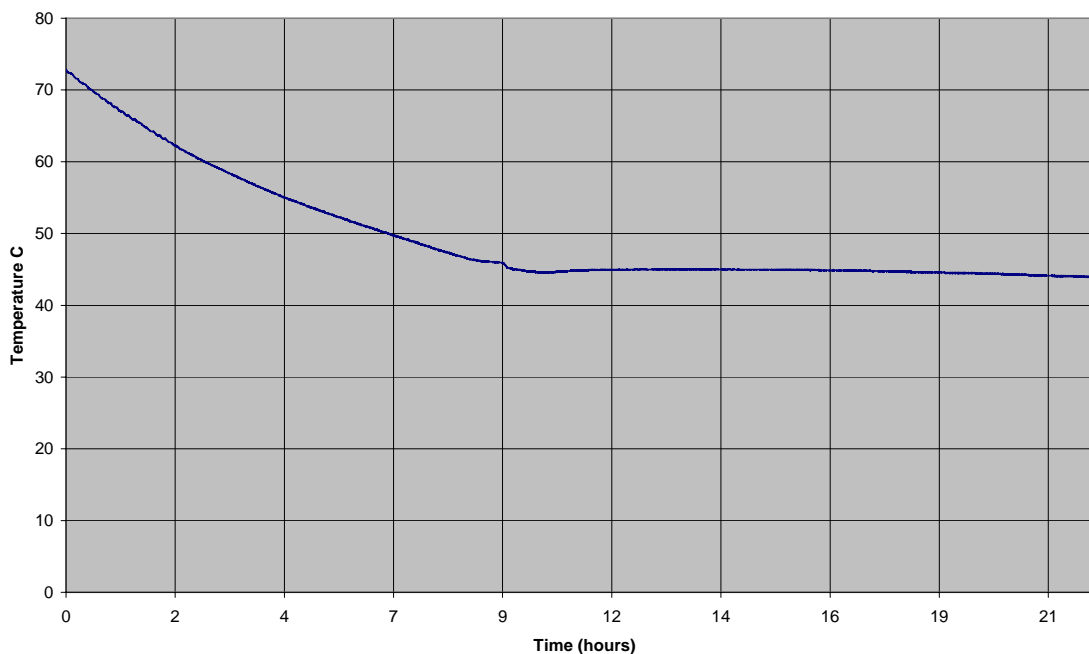
# MACKANATE® LO

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Mackanate® LO/LO-FF Drum Temperature vs Time  
Ambient Temperature 22 - 25 °C



In the above example a drum of Mackanate LO was heated to 73°C in a hot room that was 150°C. It was then removed and allowed to cool at ambient temperature (22°C -25°C.) It remained fluid for 7 hours and completely crystallized after 9 hours. Under these conditions no significant amount of degradation occurred. Repeated heating and cooling is not recommended. Degradation is best measured via the anionic actives and pH.

#### WARNING

The information contained in this document is given in good faith and based on our current knowledge. It is only an indication and is in no way binding, notably as regards infringement of or prejudice to third parties through the use of our products.

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