



# Product Information Sheet

## UNGEROL LES 3-70

### *Fatty Alcohol Ether Sulphate, Sodium Salt*

<b>CAS #:</b>	9004-82-4
<b>Chemical Formula:</b>	R - O - (CH <sub>2</sub> CH <sub>2</sub> O) <sub>n</sub> SO <sub>3</sub> Na Total Carbons R - 13-15
<b>Appearance And Odor:</b>	Pale Straw Paste
<b>Molecular Weight:</b>	450

### *Application:*

UNGEROL LES 3-70 is the sodium salt of a sulphated synthetic fatty alcohol (OXO -grade) ethoxylate. The product is readily biodegradable. Detergency, wetting and foaming properties are excellent. The stability in hard water and alkalis is good, while stability in acids is moderate. Raw materials for manufacture of shampoo for personal care use. The particular advantages of these types of products are that they combine a low cloud point with rich stable foam. They have superior detergency and emulsifying properties.

### *Chemical Analysis:*

<b>Component</b>	<b>Typical</b>	<b>Guaranteed</b>
Active material	69.2	68 - 70 Max
Sodium sulphate	0.7	0 - 1.5 Max
Nonionic content	2.8	0 - 4.0 Max
1.4 Dioxan ppm	25	0 - 40 Max

### *Physical Properties:*

<b>Component</b>	<b>Typical</b>	<b>Guaranteed</b>
pH: (1% Solution):	8.7%	7.0 - 9.0%
Color 24% solution, Klett	8	0 - 50

### *Packaging:*

Ungerol LES 3-70 is shipped in 220Kg totes on a pallet. Recommended storage temp: min 20°C. Heating to more than 50°C is not recommended as hydrolysis may occur.

### *GHS Labeling Information:*



**Signal Word**  
**Danger**

**Product Of**  
**Norway**

Note: Lidochem, Inc. makes no representations or warranty of any kind, express or implied, as to merchantability, fitness for a particular purpose, or otherwise in respect to any product referred to, whether used alone or in combination with any other material. Lidochem, Inc. makes no guarantee of satisfactory results from reliance upon information, statements or recommendations contained herein and disclaims any liability for any resulting loss or damage. For whatever case, Lidochem, Inc.'s total liability shall be limited to the purchase price of the material with respect to which damages are claimed. Nothing contained herein is to be construed as a recommendation to use any product in conflict with any patent.