

## Carboxylate Surfactant

### Pureact WLL

Sodium C12-15 Pareth-12 Carboxylate

CAS No.: 70632-06-3 EINECS No.: Exempt Polymer

Pureact WLL is the sodium salt of the methyl carboxyl derivative of ethoxylated lauryl alcohol. It is a moderate to high flash foamer with good rinsability. It has outstanding stability to alkali, acid and electrolytes along with excellent thermal stability. It is compatible with nonionics, anionics and most cationics.

#### Applications

Because of its mildness, lime-soap dispersing properties and compatibility with commonly used cationics, it meets the demands of personal care products such as hair and body shampoos. It is a good coupler and solubilizer and, as the secondary or co-surfactant, will also enhance and modify foam as well as improve ease of formulation.



#### TYPICAL PROPERTIES

Not intended for use in preparing specifications

|                    |                            |
|--------------------|----------------------------|
| Appearance @ 25°C  | Clear to slightly hazy gel |
| Color, Gardner     | 1 maximum                  |
| Moisture, %        | 28-32                      |
| pH, 10% solution   | 7.0-8.5                    |
| Sodium chloride, % | 4 maximum                  |

## Suggested Formulation

### Skin care

#### Foaming Wash AC029

Foaming wash with a good flash foam and nice after-feel.

|   | INCI Ingredients                      | Tradename (Supplier)        | % w/w               |
|---|---------------------------------------|-----------------------------|---------------------|
| A | Water                                 |                             | q.s to 100          |
|   | Trisodium Ethylenediamine Disuccinate | Natrlquest E30 (Innospec)   | 0.30                |
| B | Sodium C12-15 Pareth-12 Carboxylate   | Pureact WLL(Innospec)       | 10.00               |
|   | PEG-80 Sorbitan Laurate               | Lumisorb PSML-80 (Lambent)  | 8.00                |
|   | Cocamidopropyl Betaine (35% soln)     | Mirataine BET C-30 (Rhodia) | 6.00                |
| C | Preservative                          |                             | q.s                 |
| D | Polyquaternium-22                     | Condicare PQ2280            | 2.00                |
| E | Citric Acid (50% soln)                |                             | q.s. to -pH 5.5-6.0 |

#### Preparation Procedure

1. Dissolve Natrlquest E30 in Deionized Water.
2. Begin heating to 50-60°C and add ingredients of Phase B, one at a time, and mix until clear and uniform between each addition.
3. Cool system to 30-35°C, add preservative and mix until uniform.
4. Add slowly and mix Condicare PQ2280
5. Adjust pH to 5.5-6.0 with a citric acid solution as needed.

#### Properties

|            |  |
|------------|--|
| Appearance | Clear thin 'water-like' solution               |
| pH         | 5.5-6.0  |
| Stability  | Passed 1 month at 45°C 3 cycles<br>freeze/thaw |

For further information, please email your region:

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