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www.pilotchemical.com
9075 Centre Pointe Drive • Suite 400
West Chester, OH 45069

CALFOAM[®] ES-701 10 MAX

PRODUCT DATA SHEET

317S02.1.ACTIVE.06152020

PRODUCT DESCRIPTION

Calfoam[®] ES-701 10 MAX is a 70% active solution of sodium lauryl ether sulfate that contains one mole of ethylene oxide with a 1,4-Dioxane level below 10ppm. Calfoam[®] ES-701 10 MAX is an anionic surfactant produced by continuous sulfation of a vegetable derived fatty alcohol ethoxylate.

COMMON CHEMICAL NAME

Sodium Laureth Sulfate

CAS

68585-34-2

TYPICAL PROPERTIES

| | |
|--------------------------------|--------------------------|
| Appearance @ 25°C | Colorless to Pale Yellow |
| Odor | Mild |
| Active (Wt. %) | 68 - 72 |
| Unsul(on)ated Material (Wt. %) | 2.0 Max |
| Sodium Sulfate (Wt. %) | 1.0 Max |
| Sodium Chloride (Wt. %) | 0.1 Max |
| pH (4% Solution) | 8.5 Max |
| Specific Gravity | 1.08 |
| 1,4-Dioxane | < 10 ppm |
| Shelf Life | 1 Year |

APPLICATIONS

Calfoam[®] ES-701 10 MAX is an anionic surfactant that provides luxurious, mild and copious foam that is gentle to the skin and is perfect for personal care and HI&I formulations. Calfoam[®] ES-701 10 MAX has a 1,4-Dioxane level of below 10ppm to enable formulations to meet the New York state end use product regulations. Calfoam[®] ES-701 10 MAX is a great flash foamer, creates very dense foam and performs well under a range of conditions in formulations when used alone or in combination with other surfactants. Calfoam[®] ES-701 10 MAX has a high tolerance for pH increases and is relatively unaffected by changing water hardness, which enables many industrial cleaner formulations to benefit from using this surfactant. Calfoam[®] ES-701 10 MAX is perfect for bubble bath, shampoo, shower gel, facial cleanser, liquid hand cleaner, fabric care, hand dish wash, and car care products.

ADVANTAGES

The high activity of Calfoam[®] ES-701 10 MAX offers economical storage of sodium laureth sulfate. Calfoam[®] ES-701 10 MAX is a high purity, low salt and low color sodium laureth sulfate that offers excellent flash foaming, foam stability, air entrainment, detergency, and mildness. Calfoam[®] ES-701 10 MAX does not contain a diluent alcohol, important for formulas that require the absence of a solvent. Calfoam[®] ES-701 10 MAX is more soluble and has slightly higher cleansing properties than either two mole or three mole ether sulfates. Calfoam[®] ES-701 10 MAX is derived from renewable natural vegetable resources.

HANDLING & STORAGE

Employ normal safety precautions (i.e. gloves and safety goggles) when handling Calfoam[®] ES-701 10 MAX. Wash thoroughly after handling. Do not get in eyes, avoid skin and clothing contact. Material is slippery on wet and hard surfaces. Ensure adequate ventilation when handling. Store Calfoam[®] ES-701 10 MAX between 60 - 100°F using a low temperature heating media (105°F water) to maintain product fluidity. Avoid excessive heat and do not utilize steam. Do not store with strong oxidizing agents. Store in plastic or plastic lined steel, tightly closed containers. Refer to the Safety Data Sheet before handling.

PACKAGING

Calfoam[®] ES-701 10 MAX is available in 55-gallon polyethylene drums (net weight 480lb/218kg)

See starting formulas and additional product information at www.pilotchemical.com

The information and suggestions given are drawn from data we believe to be reliable, but in all cases, the user should check and confirm the suggestions and results in his own use before proceeding further. None of the suggestions or recommendations constitute freedom from any patents that may be existent in the field or be issued.



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CALFOAM® ES-702 10 MAX

PRODUCT DATA SHEET

327S06.4.ACTIVE.06152020

PRODUCT DESCRIPTION

Calfoam® ES-702 10 MAX is a sodium salt of lauryl alcohol ethoxy sulfate containing an average of 2 moles of ethylene oxide with a 1,4-Dioxane level below 10ppm. It is a viscous, fluid liquid produced by continuous sulfation of a natural fatty alcohol ethoxylate.

COMMON CHEMICAL NAME

Sodium Laureth Sulfate

CAS

68585-34-2

TYPICAL PROPERTIES

| | |
|-----------------------------|-------------------------------|
| Color | Colorless to light yellow |
| Odor | Mild |
| Appearance @ 25°C | Clear to slightly hazy liquid |
| Active (Wt. %) | 70 |
| Unsulfated Material (Wt. %) | 4.0 max |
| Sodium Sulfate (Wt. %) | 3.0 max |
| Sodium Chloride (Wt. %) | 1.0 max |
| pH (4% Solution) | 8.0 |
| 1,4-Dioxane (as is) | < 10 ppm |
| Shelf Life | 1 year |

APPLICATIONS

Calfoam® ES-702 10 MAX provides copious foaming for personal care product formulations. It can be combined with cocamidopropyl betaine and coconut diethanolamide for mild and luxurious bath products. Calfoam® ES-702 10 MAX does not contain a diluent alcohol, important for formulas that require the absence of solvent.

ADVANTAGES

Pilot Chemical uses a state-of-the-art continuous sulfation technology to produce Calfoam® ES-702 10 MAX, yielding a very high purity, low 1,4-Dioxane, low salt, and low color. Calfoam® ES-702 10 MAX has a 1,4-Dioxane level of below 10ppm to enable formulations to meet the New York state end use product regulations. Calfoam® ES-702 10 MAX offers excellent flash foaming, foam stability, air entrainment, detergency, and skin-friendly mildness. High active ether sulfates offer economical storage of sodium laureth sulfate for dilution to the use level in finished products.

HANDLING & STORAGE

Normal safety precautions (i.e. gloves and safety goggles) should be employed when handling. Spilled material is slippery on walkways and highways. Wash thoroughly after handling. Do not get in eyes. Avoid skin and clothing contact. Do not store with strong oxidizing agents. Store in plastic, plastic lined or stainless steel, tightly closed contains. Keep containers closed when not in use. Calfoam® ES-702 10 MAX should be stored at temperatures between 65 to 100°F to maintain the fluidity of the product.

PACKAGING

Calfoam® ES-702 10 MAX is available in 55-gallon open head polyethylene drums , totes and in bulk.

See starting formulas and additional product information at www.pilotchemical.com

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