PILOT CHEMICAL COMPANY

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CALFOAM® ES-303 4 MAX

PRODUCT DATA SHEET PDS

333S04.3.ACTIVE.04292026

PRODUCT DESCRIPTION

Calfoam® ES-303 4 MAX is a 28% active solution of sodium lauryl ether sulfate that contains an average of 3 moles of ethylene oxide and up to 4 ppm (at time of lot creation) 1,4-Dioxane. Calfoam® ES-303 4 MAX is an anionic surfactant of choice for personal care and HI&I applications.

COMMON CHEMICAL NAME

Sodium Laureth Sulfate

CAS #

68585-34-2

TYPICAL PROPERTIES

Appearance (25°C)	Clear, colorless to yellow liquid
Activity, wt. %	28.0
Unsulfonated material, wt. %	< 1.5
1,4-Dioxane, (as is), ppm	4 Max. (at time of lot creation)
Sodium Sulfate, wt. %	< 1.0
Sodium Chloride, wt. %	< 0.3
Color (as is), %T	90.0 Min.
pH (10% solution)	7.0 – 8.5
Viscosity (25°C), cPs	< 150
Foam Height (1% active solution, 25°C), mm	Initial: 138.67; 5 Minutes: 133.00
Freeze Point	28.4°F (-2°C)
Shelf Life	2 Years

APPLICATIONS

Calfoam® ES-303 4 MAX is an anionic surfactant that provides mild and profuse foam that is gentle to the skin and is perfect for personal care and HI&I formulations. Calfoam® ES-303 4 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-303 4 MAX is perfect for bubble bath, shampoo, shower gel, facial cleanser, liquid hand cleaner, fabric care, hand dish wash, and car care products.

ADVANTAGES

Calfoam® ES-303 4 MAX has up to 4 ppm (at time of lot creation) 1,4-Dioxane. Calfoam® ES-303 4 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-303 4 MAX does not contain a diluent alcohol, important for formulas that require the absence of a solvent.

Calfoam® ES-303 4 MAX is CleanGredients® Listed, which means it has been pre-approved by the U.S. EPA to meet the criteria of their Safer Choice Standard. This certification may streamline the approval process for EPA's Safer Choice program, getting a formulator's Safer Choice labeled product to market faster.

STORAGE & HANDLING

Refer to the Calfoam® ES-303 4 MAX Safety Data Sheet (SDS) before storing, handling, or using. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment and observe good industrial hygiene practices. Material is slippery on wet and hard surfaces. Store in a plastic or plastic lined steel, tightly closed container. Do not store with strong oxidizing agents. 1,4-Dioxane levels may change as a result of time, temperature, pH, and other product ingredients. Do not store product above ambient temperature (~65-78°F or ~18-26°C). Storage of product above ambient temperature can generate, affect, or increase 1,4-Dioxane levels in the product.

PACKAGING

Calfoam® ES-303 4 MAX is available in 450 lb. poly. drums, 2300 lb. poly. totes, and bulk quantities.

See 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.

RESPONSIBLE CARE® Driving Safety & Sustainability