PILOT CHEMICAL COMPANY

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CALFOAM® ES-302 4 MAX

PRODUCT DATA SHEET

PDS 323S31.3.ACTIVE.04122023

PRODUCT DESCRIPTION

Calfoam® ES-302 4 MAX is a 27% active solution of sodium lauryl ether sulfate that contains an average of 2 moles of ethylene oxide and up to 4 ppm (at time of lot creation) 1,4-Dioxane. Calfoam® ES-302 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. %	27
1,4-Dioxane (as is), ppm	4 Max. (at time of lot creation)
Unsulfonated material, wt. %	< 1.5
Sodium Sulfate, wt. %	< 1.0
Sodium Chloride, wt. %	< 0.3
pH (10% solution)	7.5 – 8.5
Viscosity (25°C), cPs	< 150
Foam Height (1% active solution, 25°C), mm	Initial: 149.00; 5 Minutes: 145.00
Freeze Point	28.9ºF (-1.7ºC)
Shelf Life	2 Years

APPLICATIONS

Calfoam® ES-302 4 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-302 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-302 4 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-302 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-302 4 MAX has up to 4 ppm (at time of lot creation) 1,4-Dioxane. Calfoam® ES-302 4 MAX is a high purity, low salt, and low color sodium laureth sulfate that offers excellent flash foaming stability, air entrainment, detergency, and mildness. Calfoam® ES-302 4 MAX does not contain a diluent alcohol, important for formulas that require the absence of solvent.

Calfoam® ES-302 4 MAX is on the List of Trade Names of Inert Ingredients Database. Calfoam® ES-302 4 MAX is approved for use as an inert ingredient in pesticide formulations for non-food applications only.

HANDLING & STORAGE

Refer to the Calfoam® ES-302 4 MAX SDS (Safety Data Sheet) 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-302 4 MAX is available in 480 lb. poly. drums, 2300 lb. poly. totes, and bulk quantities.

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 confim 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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