PILOT CHEMICAL COMPANY

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CALSOFT® HC-45

PRODUCT DATA SHEET

PDS 624S02.1.Active.11102025

PRODUCT DESCRIPTION

Calsoft® HC-45 is a 45% active aqueous solution of linear sodium decyl diphenyl oxide disulfonate. Calsoft® HC-45 is a powerful anionic surfactant that offers broad compatibility for HI&I applications, especially for harsh cleaning jobs.

COMMON CHEMICAL NAME

Sodium Decyl Diphenyl Oxide Disulfonate

CAS #

36445-71-3 and 70146-13-3

TYPICAL PROPERTIES

Appearance (25ºC)	Clear, colorless to light-yellow liquid
Active, wt.%	45.0
Color (5% active), Klett	25 Max
pH (5% active)	8.5-11.0
Solubility in Water	Miscible
Density, lbs./gal.	9.66
Foam Height (1% active), mm.	Initial: 126; 5 Minutes: 124
Freeze Point, °C (°F)	-4.3 (24.3)
Shelf Life	2 Years

APPLICATIONS

Calsoft® HC-45 is uniquely effective as a surfactant and solubilizer. Its properties provide clarity and stability when used in acid and alkaline cleaner formulations where conventional detergents fail. It enhances bleach and peroxide stability and performance. Its thermal stability makes it ideal in cleaning products intended for high temperature use. Calsoft® HC-45 is an excellent choice for use in laundry, dishwash, car wash, all-purpose cleaners, bathroom cleaners, oven cleaners and more.

ADVANTAGES

Calsoft® HC-45 is an efficient emulsifier and detergent that is compatible with a wide range of high electrolyte solutions, caustic, bleach, and other oxidizers, and inorganic acids. The double charge density of the surfactant yields durability, versatility, and stability, especially in hard water, compared to other surfactants. This molecule is great in concentrated products due to its compatibility with high electrolyte levels.

HANDLING & STORAGE

Refer to Calsoft® HC-45 SDS (Safety Data Sheet) before handling. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment and observe good industrial hygiene practices. Store in a tightly closed container. Avoid overheating or freezing. Recommended storage temperatures are 33-100ºF. If material is frozen, use mild heat and agitation to ensure the material is homogeneous before use.

PACKAGING

Calsoft® HC-45 is available in 500 lbs. poly. drum, 2500 lbs. 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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