



RXSOL

CHEMO PHARMA INTERNATIONAL

Technical Data Sheet (TDS)

RXSOL-12-1780-025

Sodium Lauryl Sulphate SLS

DESCRIPTION

SLS is an effective surfactant used in household cleaning products to help remove oily stains and residues, such as food stains in carpets. Because of its ability to break down oil and grease, SLS also is an ingredient in many industrial cleaning products, such as engine degreasers and industrial strength detergents.

PHYSICAL PROPERTIES

Appearance	SLS is a white solid with a characteristic odor. It can also be off-white to pale yellow in color.
Melting point	SLS's melting point is 204–207°C.
Solubility	SLS is soluble in water.
Flammability	SLS is a flammable solid
Critical micelle concentration (CMC)	SLS's CMC is 8.2 mm in pure water at 25°C.
Foam creation	SLS is effective at creating foam.

USES

Cleaning

SLS is a surfactant that removes oily stains and residues in household and industrial cleaning products. It's also used in engine degreasers, floor cleaners, and car wash products.

Personal care

SLS is used in cosmetics and personal care products like shampoos, body washes, hand soaps, facial cleansers, and toothpastes. It helps create lather and foam, and removes food particles from teeth.

Food

SLS is used in marshmallows, dried egg products, and fruit drinks.

Research

SLS is used as a research tool in protein biochemistry and in a technique for preparing brain tissues for study.

BENEFITS

Foaming agent

SLS is a foaming agent that helps create a lather in products like shampoo, body wash, facial cleanser, and bubble bath.

Traps oil and dirt

SLS traps oil and dirt in hair and other surfaces so it can be rinsed away.

Breaks down oil and grease

SLS's ability to break down oil and grease makes it useful in household cleaning products, engine degreasers, and industrial-strength detergents.

Emulsifier

SLS is used as an emulsifier in food additives to make marshmallows fluffier and dried egg products lighter. It

also helps mix acidic liquids with water in fruit drinks.

Wetting agent

SLS lowers the surface tension of aqueous solutions, making it a good wetting agent.

Protein denaturing activity

SLS has the ability to denature proteins.

Inhibits viral infectivity

SLS can inhibit the infectivity of viruses by solubilizing the viral envelope.

Research tool

SLS is used as a research tool in protein biochemistry.

Prepares brain tissues for study

SLS is used in a technique called CLARITY to prepare brain tissues for study by optical microscopy.

HANDLING

- Avoid breathing: Avoid breathing in dust, fumes, gas, mist, vapors, or spray.
- Wear protective equipment: Wear protective gloves and clothing.
- Rinse eyes: If SLS gets in your eyes, rinse them with water for several minutes. Remove contact lenses if they are easy to do.
- Follow label instructions: Follow the label instructions when using a cleaning product.

This Safety Data Sheet is provided by RXSOL. For the most current version of this document, please visit eastindiachemicals.com. This document is prepared in accordance with GHS / OSHA HazCom standards. The information contained herein is believed to be accurate but does not purport to be all-inclusive. It is the responsibility of the user to determine the suitability of this information for their application.