Sodium Lauryl Ether Sulphate

SLES 70%

Vegetable oil derived, high foaming, anionic surfactant used in the chemical formulating and detergent manufacturing industries. Available in 1 mole & 2 moles. It is a higher foaming variation of Sodium Lauryl Sulfate (SLS).

Recommended for

- wetting agent formulations
- liquid detergents
- cleaners
- shampoos
- laundry detergents.

SLES 70% dissolves readily in hard and soft water and provides a consistent foam character.

Product	**Sodium Lauryl Ether Sulphate**
Appearance	Colorless
Active Matter, % min	70
PH (aqueous solution 1%)	6.5 - 8.5
Sulphate as Na2SO4, % max	3.0
Chloride as NaCl, % max	0.5
Unsulfated Matter % max	3.0

Sodium Lauryl Ether Sulphate

SLES - 60% (N 56)

Vegetable oil derived, high foaming, anionic surfactant used in the chemical formulating and detergent manufacturing industries. Available in 1 mole & 2 moles. Offers easy handling, pumping & formulation latitiude.

Typical Active Content : 56 %

Recommended for

- wetting agent formulations
- liquid detergents
- cleaners
- shampoos
- laundry detergents.

COSMETICS, PERSONAL CARE & HOME CARE PRODUCTS

Polyrheo is a global Surfactant producer with a worldwide distribution. Our Raw Materials are from the purest sources, made with consistent high quality throughout the world. From Surfactant Basics to Specialties we also provide high performance system solutions.

We are a truly global Surfactant company that will enhance your Competitive Advantage through Trust, Partnership and Innovation.

Our focus is to provide you with the best quality products, with unbeatable service.

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Sodium Lauryl Ether Sulphate

SLES 30% (ES 2)

Vegetable oil derived, high foaming, anionic surfactant used in the chemical formulating and detergent manufacturing industries. Available in 1 mole & 2 moles. Offers easy handling, pumping & formulation latitiude.

Typical Active Content : 26 %

Recommended for

- wetting agent formulations
- liquid detergents
- cleaners
- shampoos
- laundry detergents.

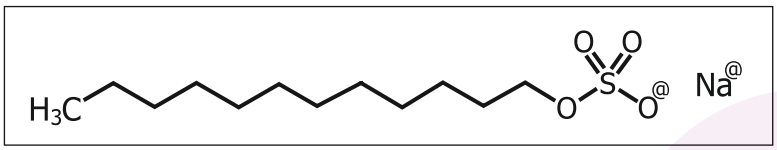
Sodium Lauryl Sulfate

SLS NEEDLES, Min 93 % Active Content

SLS is an anionic surfactant used in many cleaning and hygiene products.

SLS is a highly effective surfactant and is used in any task requiring the removal of oily stains and residues.

It is recommended in industrial products, Emulsion Polymerisation, engine degreasers, floor cleaners, car wash soaps., tooth pastes, shampoos, shaving foams and bubble bath



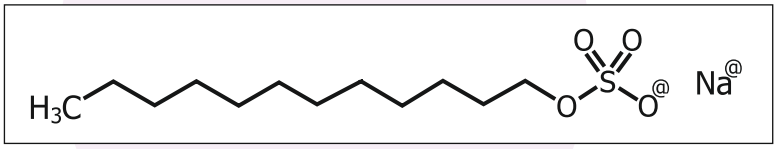
Sodium Lauryl Sulfate

SLS solution 30 % Active Content

SLS 30 % is a lower active SLS, whcih is easier to handle & pump, in solution form.

SLS is a highly effective surfactant and is used in any task requiring the removal of oily stains and residues.

It is recommended in industrial products, Emulsion Polymerisation, engine degreasers, floor cleaners, car wash soaps., tooth pastes, shampoos, shaving foams and bubble bath



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Fatty Alcohol Ethoxylates

Fatty Alcohol

Lauryl Alcohol Ethoxylate, 9 Moles

Replacement for NP surfactants (Nonyl Phenol Ethoxylates)

POLYRHEO LA 9	LA-9
Appearance At 25° C	Clear, essentially colorless liquid
Hydroxyl Value	96±5
Hlb	13.6
Acid Value Max	1.0
Color Gardner Max	1

RHEO-TERGE AS 40

Alpha Olefin Sulphonate

RHEO-TERGE AS 40 is the sodium salt of alpha olefin sulphonate (SAOS), commonly known as AOS.

AOS is an effective emulsifier and has excellent foaming characteristics. Its resistance to water hardness and other metallic ions is very good, and it is stable over a wide pH range. It is superior to conventional detergent actives with regard to bio-degradability, mildness to skin, cold-water solubility, rinsability, flash foaming, and detergency in hard water.

Property	Values
Appearance	Clear Liquid
Active matter %	37.00-39.00
Colour klett max (5% AD basis)	60
Sulphate % (as Na2SO4) max	1.0
Chloride % (as NaCl) max	1.75
Free oil or NDOM % (100% basis) max	4.0
pH (5% AD basis)	7.0-8.0
Viscocity@ 30 degrees centigrade max	100-150 sec

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Glycol Stearate

Application: Pearling agent for Shampoos

POLYRHEO	GLYCOL DI STEARATE	GLYCOL MONO STEARATE
Appearance	White Flakes/Powders	White Flakes/Powders
Acid Value	5 Max	5 Max
Iodine Value	3 Max	3 Max
Saponification value	190-210	180-200
Melting Point	60°C ± 5°C	60°C ± 5°C
Moisture Content Karl Fischer	2% Max	2% Max

Glycerol Stearates

Glycerol Mono Stearate (GMS)

Emulsifier in Personal care application

Product	GMS-SE
Appearance	White Flakes
Sapnfn Value	145-165
Acid Value	3 max
Iodine Value	3 max
Alpha mono glyceride	40% Min
PH of 5% soln	8 -10
Moisture	2 % max
Melting point	60°C ± 5
Odour	Mild fatty

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Coco Amido Propyl Betaines (CAPB)

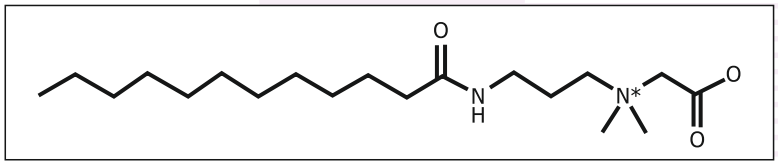
CAS No.: ***61789-40-0***

It is a viscous pale yellow transparent liquid and is used as a surfactant in bath products such as Hair shampoos , Shower Gels, Bubble Bath, Face wash, soaps, emulsifying agent, thickener and anti static agent in hair conditioner. Also used in Fire Fighting Foams,

It reduces the irritation ionic surfactants would cause.

Product specifications:

Properties	Specification
Appearance	Colourless to Light Yellow liquid
Colour	3 G Max
Solid Content %	43 - 48 %
Active Matter	36 % Min
PH 10% Soln.	5.0 - 7.0
Chloride as (NaCl)	5.8 - 7.3 % Max
Free Amido Amine	0.5 % Max
MCA Content (ppm)	10 Max
DCA Content	30 Max
Density at 20C(g/cm3)	Approx. 1.05



Polyquat 7

Polyquaternium 7

Water Soluble Polymer for Personal care
Hair and Skin Conditioning Polymer

Product Description:

PolyQuat 7 is an aqueous solution of highly charged cationic polymer. PolyQuat 7 is used effectively in hair shampoos and cream rinses. It can boost and stabilize foam while contributing excellent lubricity, wet compatibility and luster to hair without excessive build-up. Suggested concentrations for shampoos are 2 to 5%

The film forming ability of PolyQuat 7 makes it ideal for use in hair setting gels and lotions. PolyQuat 7 provides a high degree of slip to the hair during setting and holds curls firmly without flaking. PolyQuat 7 gives hair a look and feel of softness, body and luster. Suggested levels are 10 to 15 % .

Use of PolyQuat 7 is also suggested in other personal care products like shaving creams, moisturizing or barrier creams an lotions, bath products and deodorants.

Product Specification:

	Specification
Appearance	Viscous liquid
Solid Content %	9 - 10 %
PH 10% Soln.	7.0 - 8.0
Chloride as (NaCl)	1.5 - 2.0 % Max
Viscosity	5,000 - 15,000 cps

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Labsa 96

Polyrheo Labsa 96

CAS Registry No.: 27176-87-0

Polyrheo LABSA 96 is an anionic surfactant that is obtained by direct sulfonation of Linear Alkyl Benzene of C10~C13 chain lengths. It exhibits outstanding cleansing power, foaming ability and also shows very stable properties in the acid, alkali and hard water.

Applications: Polyrheo LABSA 96 is used as a raw material for Household , Industrial & Institutional cleaners, Including laundry, dishwasher, carwash, degreasers, hard surface & general-purpose detergents.

Properties

Product	Linear Alkyl Benzene Sulfonic Acid
Appearance	Viscous Amber Liquid Active
Active Matter, % min	96.0
Un sulfonated Organic Matter (%)	2 Max
Free Surfuric Acid (%)	1.5 Max.
Water Content	Balance
Color (Klett, 5% AM)	40.00 Max
Acid Value	180 ~190

Polyrheo Soap Noodles

Product Name ***: Soap Noodles***
Product Code ***: 80 : 20 / 85 : 15***

Chemical Properties	**Unit**	**Specific Range**
Total Fatty Matter	%	77 - 79
Moisture	%	13 - 15
Salts (As Nacl)	%	Max. 1.0
Alcohol Insoluble	%	Max. 1.0
Color	5 ¼" Lovibond Cell	0.4 to 0.8 Yellow, 0.2 to 0.6 Red
Titre	Deg C	44 - 47

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Alkyl Poly Glucoside - APG

Description

Polyrheo APG is a new generation Bio-Surfactant, a nonionic surfactant. It is made from natural raw materials; APG is very mild and readily & fully biodegradable. The product has excellent mildness, foaming performance and ability to reduce irritation.

Properties

	APG 814	APG 1214	APG 810	APG 8107	APG 225
Chemical Name	Coco Glucoside /C8-14 fatty alcohol glycoside	Lauryl Glucoside /C12-14 fatty alcohol glycoside	Octyl Glucoside /C8-10 fatty alcohol glycoside	Octyl Glucoside /C8-10 fatty alcohol glycoside	Octyl Glucoside/ C8-10 fatty alcohol glycoside
Carbon number	C8-C14	C12-C14	C8-C10	C8-C10	C8-C10
CAS No.	110615-47-9 68515-73-1	110615-47-9	68515-73-1	68515-73-1	68515-73-1
Solid (wt)	≥50%	≥50%	≥50%	≥70%	≥70%
Viscosity (25^0C,mPa.s)	≤2000	≥2000	≤500	≥2000	≥2000

Application:

Shampoo, Bubble bath, Cleaning lotion, Skin care products, Dishwashing detergents
Cosmetic emulsifiers, Hard surface cleaners, Industrial cleaners, Adjuvant for textile

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