



Range of Products

PERLASTAN Sarcosinate Surfactants

4 - 5

PERLASTAN L-30	Sodium Lauroyl Sarcosinate
PERLASTAN AL-30	Ammonium Lauroyl Sarcosinate
PERLASTAN CH-30	Sodium Cocoyl Sarcosinate
PERLASTAN M-30	Sodium Myristoyl Sarcosinate
PERLASTAN ON-60V	Sodium Oleoyl Sarcosinate

PERLASTAN L	Lauroyl Sarcosine
PERLASTAN CH	Cocoyl Sarcosine
PERLASTAN M	Myristoyl Sarcosine
PERLASTAN OCP	Oleoyl Sarcosine

PERLASTAN Glutamate Surfactants

6 - 7

PERLASTAN SCG 35	Disodium Cocoyl Glutamate
PERLASTAN SC 25 NKW	Sodium Cocoyl Glutamate (and) Disodium Cocoyl Glutamate
PERLASTAN SC 25 NK	Disodium Cocoyl Glutamate
PERLASTAN SC	Sodium Cocoyl Glutamate (and) Disodium Cocoyl Glutamate
PERLASTAN SL	Sodium Lauroyl Glutamate
PERLASTAN SLG 38	Sodium Lauroyl Glutamate
PERLASTAN TCG 30	TEA Cocoyl Glutamate

Sil-O-San Dimethicone

8 - 10

Sil-O-San 8631C	Cetyldimethicone
Sil-O-San 8611C	PEG-12 Dimethicone
Sil-O-San 8651C	Amodimethicone (and) Trideceth-12 (and) Cetrimonium Chloride

SILAPHOS Phosphate Esters

11 - 12

SILAPHOS TE 340	Trilaureth-4 Phosphate
SILAPHOS MDE 124	Laureth-4 Phosphate
SILAPHOS ME 16	Mono Cetyl Phosphate

POLYFIX oSORP Zinc Ricinoleate

13

PolyFix oSORP conc20H	Zinc Diricinoleate Concentrate
------------------------------	--------------------------------

SILASTOL Fatty Acid Chlorides

14

SILASTOL LC 99LP	Stearoyl Chloride
-------------------------	-------------------



PERLASTAN Sarcosinate Surfactant

Surfactants which are based on the amino acid N-methyl glycine (sarcosine).

Product Name	CTFA/INCI Name	Active Ingredient	Confirms to
PERLASTAN L-30	Sodium Lauroyl Sarcosinate	30 %	ECO-Label, Nordic Swan
PERLASTAN AL-30	Ammonium Lauroyl Sarcosinate	30 %	ECO-Label, Nordic Swan
PERLASTAN CH-30	Sodium Cocoyl Sarcosinate	30 %	
PERLASTAN M-30	Sodium Myristoyl Sarcosinate	30 %	

Product Name	CTFA/INCI Name	Active Ingredient	Confirms to
PERLASTAN L	Lauroyl Sarcosine	94 %	ECO-Label, Nordic Swan
PERLASTAN CH	Cocoyl Sarcosine	94 %	
PERLASTAN M	Myristoyl Sarcosine	94 %	
PERLASTAN OCP	Oleoyl Sarcosine	90 %	



Attributes

- very mild to skin and eyes
- lowers irritation potential of severe surfactants
- offers buffer capacity at skin pH
- provides rich foam and smooth skin feel
- conditioning effects on hair
- resistant to sebum delathering
- environmentally friendly
- rapid biodegradability
- compatible with cationic surfactants

Application

- rinse-off applications for skin care and hair care like body wash, aerosol shampoos, toilet soaps, baby bath soaps, liquid hand soaps, cleansing wipes, shaving gels, syndet soap bars, surgical scrubs, hair shampoos, hair conditioners
- dental and oral hygiene products like toothpastes and mouth wash
- eye care products like eye drops, contact lense cleansers

Clear Facial Cleansing Gel

Ingredient	Weight %
Sodium Cocoyl Glutamate, PERLASTAN® SC	40.0
Sodium Lauroyl Sarcosinate, PERLASTAN® L-30	10.0
Cocamide DEA	10.0
Glycerol	5.0
Perfume	q.s.
Preservative	q.s.
Water	qs to 100



Mix all ingredients together, heat to about 50 °C until clear, cool, adjust rheological behaviour with additional water.

Skin Cleansing Preparation For a Foam Pump Dispenser

	Ingredient	Weight %
A	Aqua	qs to 100
A	Glycerin	5.0
B	Xanthan Gum	0.1
C	Coco Glucoside (50 %)	3.0
C	Sodium Cocoyl Sarcosinate, PERLASTAN® C-30	5.0
C	Sodium Laureth Sulfate (56 %)	13.0
D	Citric Acid	qs to pH = 6.0
E	Triethylene Glycol, Imidazolidinyl Urea, Methylparaben, Propylparaben, Dehydroacetic Acid	0.5

Solve B into A; add C; adjust pH = 6.0 with D; add

Silkening Shower Gel

	Ingredient	Weight %
A	Water	qs to 100
A	Sodium Laureth Sulfate	35.0
A	Cocamidopropyl Betaine	10.0
A	Cocamidopropyl Hydroxysultaine	10.0
B	Sodium Lauroyl Sarcosinate, PERLASTAN® L-30	5.0
B	Polyquaternium-7	4.0
C	Tetrasodium EDTA	0.2
C	Fragrance	qs
C	Preservative	qs
C	Citric Acid	qs to pH 6.0

Mix the ingredients of Part A in the order listed, proceeding after each addition is clear and uniform. Premix the **PERLASTAN® L-30** and the Polyquaternium-7 and add as Part B. Continue mixing and add Part C. Adjust the pH to 6.0 with Citric Acid.



PERLASTAN Glutamate Surfactants

Mild and good foaming surfactants which are based on the amino acid L-glutamic acid.

Product Name	CTFA/INCI Name	Dry Substance	Confirms to
PERLASTAN SCG 50	Disodium Cocoyl Glutamate	50 %, pH 10	
PERLASTAN SCG 35	Disodium Cocoyl Glutamate	35 %, pH 10	
PERLASTAN SC 25 NKW	Sodium Cocoyl Glutamate (and) Disodium Cocoyl Glutamate	25 %, pH 6.5	BDIH, ECO-CERT, NaTrue, ECO-Label, Nordic Swan Label
PERLASTAN SC 25 NK	Disodium Cocoyl Glutamate	25 %, pH 10	BDIH, ECO-CERT, NaTrue, ECO-Label, Nordic Swan Label
PERLASTAN SC	Sodium Cocoyl Glutamate (and) Disodium Cocoyl Glutamate	25 %, pH 8.5	BDIH, ECO-CERT, NaTrue, ECO-Label, Nordic Swan Label
PERLASTAN SL	Sodium Lauroyl Glutamate	25 %, pH 8.5	BDIH, ECO-CERT, NaTrue
PERLASTAN SLG 38	Sodium Lauroyl Glutamate	38 %, pH 9.5	
PERLASTAN TCG 30	TEA Cocoyl Glutamate	30 %, pH 6.0	

Attributes

- remarkably mild to skin and eyes
- lowers irritation potential of severe surfactants
- comfortable and soft feeling of the skin
- during and after use
- gentle cleanser for hair
- excellent foaming power and good detergency
- offers buffer capacity at skin pH
- environmentally friendly
- useful for certified natural cosmetics

Application

- rinse off products for skin and hair like facial and body cleansers, hair shampoos,
- dermatological products and allergen-controlled medical cleansers



Skin Cleansing Shampoo »Certified Natural Cosmetics«

	Ingredient	Weight %
A	Aqua	qs to 100 %
B	Xanthan Gum	0.50
C	Glyceryl Oleate	0.60
C	Glycerin	5.0
C	Sodium (and) Disodium Cocoyl Glutamate PERLASTAN® SC 25 NKW	17.5
C	Coco Glucoside (50 %)	10.0
D	Citric Acid or Lactic Acid	qs to pH = 6.0
E	Preservatives, Fragrances, Chelating agents etc.	qs

Solve B into A at room temperature. Add C in listed order and mix until preparation appears homogeneous at room temperature. Adjust pH = 5.5 with D; add E

Baby Bubble Bath

	Ingredient	Weight %
A	Water	10.0
B	Allantoin	0.1
C	Sodium Cocoamphoacetate	15.0
C	Disodium Cocoyl Glutamate, PERLASTAN® SCG 35	23.0
C	Fragrance	0.5
C	Water	31.15
C	Extrapon chamomile spezial	2.0
C	Laureth-3	2.75
C	Cocamidopropyl Betaine	15.0
C	Dye, Preservative	qs
D	PEG-120 Methyl Glucose Dioleate	0.5
E	Citric Acid	qs to pH = 6.0

Dissolve B in A while heating slightly. Stir components of C one after another into A. Adjust viscosity with D and pH with E.

Sil-O-San Dimethicone

Sil-O-San silicones are polymers combining organic as well as inorganic characteristics. The backbone structure is made from alternating silicone and oxygen atoms. Free valences of the silicone are functionalised by specific moieties depending on the required properties and envisaged application.

Sil-O-San 8631C

INCI: Cetyldimethicone
Alkyl modified silicone wax, soluble in cosmetic oils and waxes.

Attributes

- boosting the light protective effect
- very good solubility in cosmetic oils and waxes
- providing a very good wetting behaviour
- improving the care properties
- enhancing the brilliance
- improving gloss, feeling and softness

Application

- sunscreens 0.9 – 3.0 %
- emulsions 0.9 – 3.0 %
- make-up products 0.3 – 1.5 %
- lipsticks 0.2 – 1.0 %
- hair conditioners 0.9 – 5.0 %

Sil-O-San 8611C

INCI: PEG-12 Dimethicone
Silicone polyether copolymer surfactant, soluble in water, alcohol and hydro-alcoholic systems.

Attributes

- effective surface tension depressant
- excellent conditioning
- imparts a silky soft feel on skin and hair
- detackifies greasy formulations
- good foam builder
- low usage levels required
- compatible with a wide range of cosmetic ingredients
- ensures smooth, wet foams

Application

- shampoos 0.4 – 1.0 %
- shower products 0.4 – 1.0 %
- foam baths 0.4 – 1.5 %
- shaving products 0.6 – 2.0 %
- hairstyling products 0.5 – 5.0 %

Sil-O-San 8651C

INCI: Amodimethicone (and) Trideceth-12 (and) Cetrimonium Chloride
Amino modified cationic silicone emulsion produced by polycondensation and subsequent emulsification.

Attributes

- conditioning properties
- forms a protection film on the hair
- improves wet and dry combing force
- reduces combing time
- light and soft hair touch

Application

- rinse off conditioners 2.5 – 7.0 %
- leave on conditioners 2.0 – 5.0 %
- shampoos 0.5 – 3.0 %
- styling products 1.5 – 4.0 %
- hair colouring products 0.5 – 3.0 %

Sun Lotion SPF 15

Phase A	Weight %
Ethyl Oleate	1.0
Caprylic/Capric Triglycerides	1.0
Cetylstearylalcohol	1.7
C12-15 Alkylbenzoate	5.0
Dibutyl Adipate	3.0
Cetearyl Ethylhexanoate and Isopropyl Myristate	2.5
Octocrylene	4.0
Butyl Methoxydibenzoylmethane	3.0
Ethylhexyl Methoxycinnamate, BHT	5.0
Cetyldimethicone Sil-O-San 8631C	0.9
Tocopherolacetate	0.5
Xanthan Gum	0.2
Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.2

Phase B	Weight %
Water	60.3
Glycerin	5.0
Distarch Phosphate	4.0
2-Phenoxyethanol, Butylparaben, Methylparaben, Ethylparaben, Propylparaben, Isobutylparaben	0.8
Polysorbat 20	0.3

Phase C	Weight %
Sodium hydroxide (10 %)	1.2
Perfume	0.4

- Phase A Add ingredients in the given order, homogenisation, heat up to 65 °C
- Phase B Add ingredients in the given order, homogenisation, heat up to 65 °C, add to phase A without stirring, homogenisation, cool down to 35 °C
- Phase C Add phase C, short homogenisation



Shampoo 2 in 1

Ingredient	Weight %
Water	34.2
Sodium Laureth Sulfate	52.8
Cocoamido Propylbetaine	5.0
PEG-200 Hydrogenated Glycerylpalmitate (and) PEG-7 Glycerylcocoate	2.0
PEG-12 Dimethicone Sil-O-San 8611C	0.5
Benzylalcohol, Methylparaben, Propylparaben	0.6
Perfume	0.2
CI 7707	0.015
NaOH/Citric acid	0.2
Sodium Chloride	4.5

Add ingredients in the given order, homogenisation. Adjust viscosity with Sodium Chloride. Adjust pH value with NaOH/Citric Acid

Conditioning Haircream

Phase A	Weight %
Water	86.4
Hydroxyethylcellulose	1.2

Phase B	Weight %
Cetylalkohol	4.0
Sodium Stearoyl Glutamate	0.5
Cetyldimethicone Sil-O-San 8631C	2.0
Cyclopentasiloxan	2.0

Phase C	Weight %
SIL-O-SAN 8651C, Amodimethicone, Trideceth-12, Centrimonium Chloride	3.0
Dehydroacetic acid, Benzoic acid, Sorbic acid, Caprylyl Glycol, Benzyl alcohol	0.6
Perfume	0.3

Phase A Dissolve Hydroxyethylcellulose, in water, heat up to 65 °C

Phase B Add ingredients in the given order, homogenisation, heat up to 70 °C, add to phase A under stirring, homogenisation, cool down to 35 °C

Phase C Add ingredients to A+B in the given order, homogenisation



SILAPHOS Phosphate Esters

Anionic surfactants which are based on phosphate esters derived from alcohols and alcohol ethoxylates.

SILAPHOS TE 340

INCI: Trilaureth-4 Phosphate

Very effective halogene-free emulsifier obtained by direct esterification of ortho phosphoric acid and natural alcohol ethoxylate. The emulsifier is liquid at neutral pH with >90 % active content.

Attributes

- effective O/W emulsifier for the cosmetic industry
- low amounts (1.0 - 3.0 %) are sufficient to achieve highly stable emulsions
- allows emulsions with polar oils and UV filters
- improves spreadability, smoothness and moisturising
- lowers stickiness of leave on products
- emulsifier which is cold processable

Application

- leave on products like lotions and creams

SILAPHOS MDE 124

INCI: Laureth-4 Phosphate

Effective halogene free emulsifier obtained by esterification of phosphorous pentoxide and natural alcohol ethoxylate. The emulsifier is liquid at a low acidic pH and has to be neutralized during processing.

Attributes

- effective O/W emulsifier for the cosmetic industry
- good cleansing effects
- aids the even distribution of lotion and creams
- emulsifier which is cold processable

Application

- leave on products like lotions and creams

SILAPHOS ME 16

INCI: Mono Cetyl Phosphate

Halogen free mono phosphate ester obtained by direct esterification of ortho phosphoric acid and a vegetable cetyl alcohol.

Attributes

- skin compatible anionic O/W-emulsifier
- water resistant emulsifier for sun cream applications
- compatible with UV filters

Application

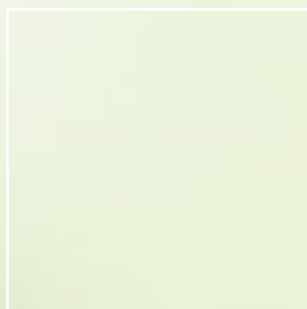
- leave on products like lotions and creams
- water resistant sun creams

O/W Creme

Ingredient	Weight %
Mineral Oil	8.0
Isopropyl Palmitate	7.0
Glyceryl Stearate	0.5
Cetearyl Alcohol	0.5
Silaphos ME 16 Mono Cetyl Phosphate	1.0
PERLASTAN SC 25 NK Disodium Cocoyl Glutamate	0.5
Cetyldimethicone, Sil-O-San 8631C	1.0
Acrylates/C10-30 Alkyl Acrylate Crosspolymer	1.0
Preservative	q.s.
Water	ad 100
Glycerin	5.0
Citric Acid/Trisodium Citrate	q.s. to pH 5.5
Tocopheryl Acetate	1.0

O/W Lotion

Ingredient	Weight %
Mineral Oil	8.0
Isopropyl Palmitate	3.0
Caprylic/Capric Triglyceride	2.0
Glyceryl Stearate	0.5
Cetearyl Alcohol	0.5
Silaphos TE 340 Trilaureth-4 Phosphate	2.0
Sil-O-San 8631C Cetyldimethicone	1.0
Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.5
Preservative	q.s.
Water	ad 100
Glycerin	5.0
Alcohol denat.	1.0
Citric Acid/Trisodium Citrate	q.s. to pH 5.5
Tocopheryl Acetate	1.0



POLYFIX oSORP Zinc Ricinoleate

Zinc Diricinoleate Concentrate

Broad spectrum odour absorber concentrate based on 20 % zinc ricinoleate (ZnRic) activated by a readily biodegradable chelating agent and non-ionic surfactant.

Attributes

Capable of binding odour-forming nucleophilic compounds such as:

- organic acids (isovaleric acid, butanoic acid)
- amines (methylamine, cadaverine, putrecine)
- ammonia
- mercaptans (ethylmercaptan)
- thio ethers (dimethyl sulfide, allicin)
- hydrogen sulfide

Polyfix oSorb conc20H

- is readily biodegradable
- is water soluble and cold process able
- is compatible with non-ionic and anionic surfactant systems
- is most effective in cleaners at pH 8 – pH 12
- is used at typical treatment levels of 5 - 20 % (1 - 4 % on active ZnRic)
- will not affect most fragrances

Application

As an additive in odour eliminating products where smell originates from urine, excrement, sweat, skunk spray as well as from spoiled meat, fish and food in general.

For application in

- household products
- sanitary products
- car care products
- pet care products
- paper industry
- sewage plants
- air fresheners

Odour absorber, aqueous

Ingredient	Weight %
Zinc Ricinoleate Concentrate PolyFix oSORB conc 20H	20.0 (4.0 % active ZnRic)
Water	80.0
Preservative	q.s.
Perfume	q.s.

Add ingredients in the given order, homogenisation.

Formulary



Odour absorber, fast drying

Ingredient	Weight %
Zinc Ricinoleate Concentrate PolyFix oSORB conc 20H	5.0 (1.0 % active ZnRic)
Ethanol	7.0
Perlastan L-30	3.0 (1.0 % active ZnRic)
Water	85.0

Add ingredients in the given order, homogenisation.

SILASTOL Fatty Acid Chlorides

SILASTOL LC 99LP Stearoyl Chloride
Purified fatty acid chloride based on a vegetable fatty acid.

Attributes

- high purity
- bright colour
- low fatty acid content
- low phosphate content
- high reactivity
- based on vegetable fatty acids

Application

- used as an intermediate for different chemical synthesis





For more information please contact:

Schill+Seilacher GmbH

Schoenaicher Strasse 205

D-71032 Boeblingen (Germany)

Phone: + 49 7031 282-241

Fax: + 49 7031 282-446

E-Mail: surfactants@schillseilacher.de

www.schillseilacher.de

