



struktol®

PERLASTAN®

*Sarcosinates and Glutamates for
Personal Care and I&I Applications*

PERLASTAN® Product Benefits



Amino Acid-Based Surfactants

N-ACYL SARCOSINATE SURFACTANTS

- Outstanding mildness to skin and eyes
- Substantivity, impart good feel, softness and lubricity to skin and hair
- Improved moisture retention in the skin
- Outstanding lather building, even at higher pH
- High resistance to sebum delathering
- Excellent foaming and wetting
- Compatibility with quaternary ammonium germicides and conditioners
- Raises cloud point of other surfactants and lowers Krafft point
- Excellent corrosion inhibition/resistant to oxidation
- Wide compatibility with medicated ingredients
- Good tolerance to hard water/high salt tolerance
- Solubility in highly alkaline systems
- High performance in neutral to moderately acidic formulations
- Good detergency
- Rapid biodegradability
- Enzyme inhibiting effects

N-ACYL GLUTAMATE SURFACTANTS

- Low irritation potential and anti-irritating effect
- Comfortable and soft feeling to the skin during and after use
- Gentle cleanser for hair
- Moderate foaming power
- Good detergency
- Buffer capacity in weak acidic conditions
- Hard water tolerance
- Low chloride content
- Soluble in hydrophilic formulations
- Hypo-allergenic, non-comedogenic



PERLASTAN® Range of Products

PERLASTAN® Sarcosinate Surfactants

Product Name	PERLASTAN® L 30	PERLASTAN® C 30	PERLASTAN® M 30	PERLASTAN® AL 30
CTFA/INCI Name	Sodium Lauroyl Sarcosinate	Sodium Cocoyl Sarcosinate	Sodium Myristoyl Sarcosinate	Ammonium Lauroyl Sarcosinate
Active Ingredient (%)	29 - 31	29 - 31	29 - 31	29 - 31
pH, 10% solution	8.0 - 9.3	8.0 - 9.3	8.0 - 9.3	7.5 - 8.5
Sodium Soap (max.%)	2	2	2	2 (NH₄)
Appearance @ RT	colorless clear liquid	pale yellow clear liquid	clear yellow liquid	pale yellow clear liquid
Color, APHA (max.)	60	200	75	200
Density @ 20° C (g/ml)	1.03	1.02	1.02	1.01

PERLASTAN® Sarcosine Acids

Product Name	PERLASTAN® L	PERLASTAN® C	PERLASTAN® OCV
CTFA/INCI Name	Lauroyl Sarcosine	Cocoyl Sarcosine	Oleoyl Sarcosine
Active Ingredient (min.%)	94	94	90
Free Fatty Acid (max.%)	6	6	10
Color, Gardner (max.)	2	4	8
Appearance @ RT	white to yellowish wax	pale yellow liquid	yellow brown liquid
Solidification Point (°C)	30 - 37	0	< 0
Acid Number (mg KOH/g)	190 - 220	180 - 210	153 - 163



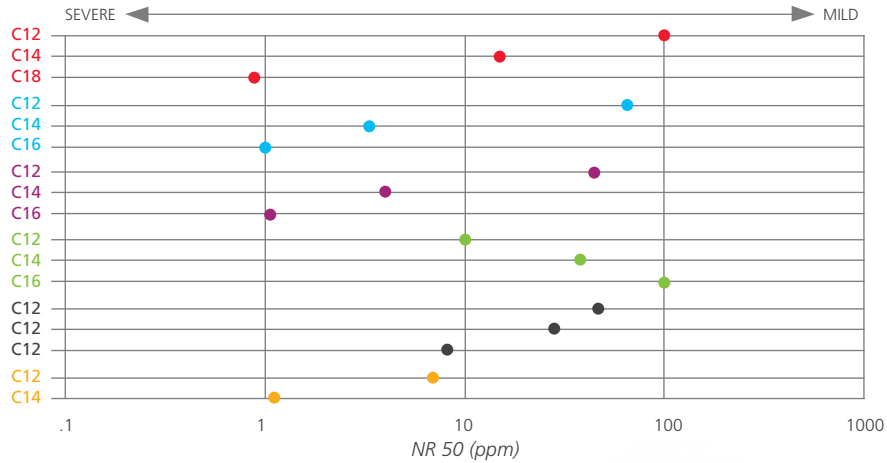
PERLASTAN® Glutamate Surfactants

Product Name	PERLASTAN® SC	PERLASTAN® SCG 35	PERLASTAN® SCG 50	PERLASTAN® SL
CTFA/INCI Name	Sodium Cocoyl Glutamate	Disodium Cocoyl Glutamate	Disodium Cocoyl Glutamate	Sodium Lauroyl Glutamate
Active Ingredient (%)	24 - 26	32.6 - 38	49 - 51	24 - 26
pH, 10% Solution	7.5 - 9.5	9.5 - 10.5	9.5 - 10.5	7.5 - 9.5
Sodium Soap (max.%)	2.5	2.5	4	2.5
Appearance @ RT	slightly yellowish clear liquid	slightly yellowish clear liquid	slightly yellowish clear liquid	slightly yellowish clear liquid
1, 2-Propylene Glycol (%)	none	4 - 6	6 - 9	none
Sodium Chloride (%)	< 0.5	4.0 - 5.5	5.7 - 7.8	< 0.5
Density @ 20° C (g/cm³)	1.05	1.13	1.17	1.06

Benefits of N-Acyl Sarcosinate and Glutamate Surfactants

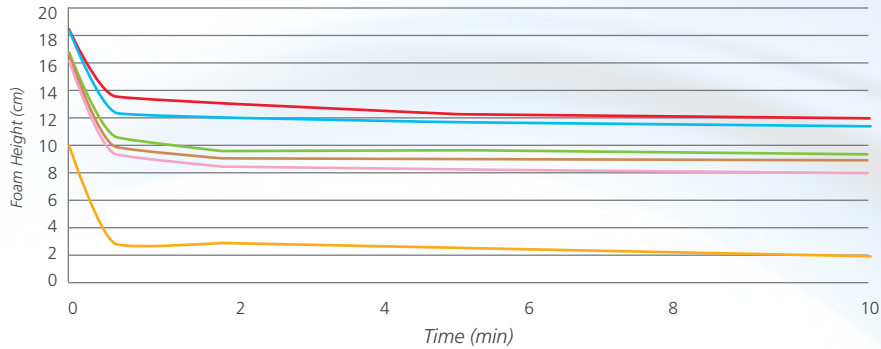
Mildness to Skin and Eyes (Cytotoxicity of N-acylamido acids and other anionic surfactants)

- Sodium N-Acyl Glutamate (PERLASTAN®)
- Sodium N-Acyl N-Methyl Taurate
- Sodium N-Acyl Sarcosinate (PERLASTAN®)
- Sodium Fatty Acid
- Sodium Lauryl Ether Acetate
- Sodium Lauryl Aminopropionate
- Sodium Lauryl Ether Sulfate
- Sodium Alkyl Sulfate



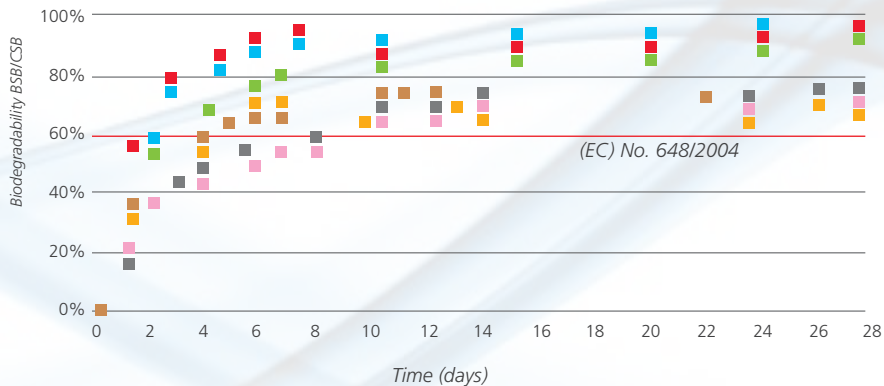
Foam Behavior (Ross-Miles test)

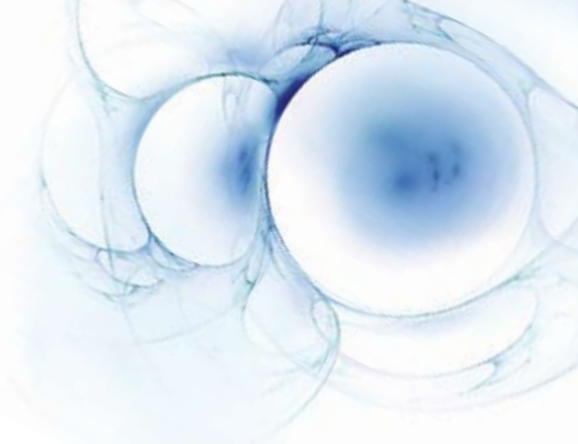
- | Ingredient | Micro-Porosity |
|--|----------------|
| Sodium Cocoyl Glutamate (PERLASTAN® SC) | ++ |
| Sodium Lauroyl Sarcosinate (PERLASTAN® L 30) | ++ |
| Cocamidopropyl Betaine | + |
| Sodium Lauryl Sulfate | + |
| Sodium Laureth-3 Sulfate | - |
| Sodium Oleate | -- |



Environmentally Friendly (Manometric Respirometry test – OECD 301F)

- Sodium Cocoyl Glutamate (PERLASTAN® SC)
- Sodium Lauroyl Sarcosinate (PERLASTAN® L 30)
- Sodium Myristoyl Sarcosinate (PERLASTAN® M 30)
- Cocamidopropyl Betaine
- Sodium Lauryl Sulfate
- Sodium Laureth-3 Sulfate
- Laureth-4 Phosphate Ester, neutr. (SILAPHOS® MDE 124)





PERLASTAN® improves the effectiveness of Personal Care and I&I cleaning products

through a unique product line of Amino Acid-Based Surfactants (N-Acyl Sarcosinates and N-Acyl Glutamates). These products can open a world of new opportunities to enhance your existing products. Let our extensive line of products improve the functionality, quality and performance values in your business.

Personal Care Products

Skin Care

- Body Wash
- Toilet Soaps
- Make-Up Removers
- Baby Bath Soaps
- Hand Soaps
- Cleansing Wipes
- Shaving Gels
- Facial Cleaners
- Shower Gels
- Depilatories
- Syndet Soap Bars
- Surgical Scrubs
- Dermatological Products

Hair Care

- Hair Shampoos
- Hair Conditioners

Dental & Oral Hygiene

- Toothpastes
- Mouth Wash

Eye Care

- Eye Drops
- Contact Lens Cleaner

Household and I&I Products

Cleaners

- Carpet Shampoos
- Alkaline Cleaners
- Waste Pipe Cleaners
- Aerosol Shampoos
- Bleach Formulations
- Window Cleaners
- Steel Wool Soap Pads
- Laundry Detergents

Others

- Lubricants
- Cutting Oils
- Film Packaging
- Fuel Oil
- Textiles
- Leather Water-Proofing



At Struktol, we've built a reputation for unique, dynamic and cost-effective solutions. Let us help your business open a world of new opportunities.

*Call us today at **330-928-5188** or visit us on the web at **www.perlastan.com**.*

Struktol Company of America

Struktol Company of America is a member of the Schill & Seilacher family of companies, with representation in over 100 countries around the world. A global organization with over a century of specialty chemical expertise, Schill & Seilacher markets their Personal Care products under the brand name PERLASTAN® – a name that has become synonymous with both quality and performance. STRUKTOL® PERLASTAN® is found in body wash, shampoos, industrial soaps, cleaners and other applications that demand good foam and mildness. The Struktol approach to the Personal Care / I&I business is by no means typical or ordinary. Chemistry is at the heart of everything we do. Providing Intelligent Additive Solutions, Struktol products are designed to meet the challenges and exacting demands of our customers. Our technical specialists, R&D chemists and laboratory technicians are dedicated to creating innovative solutions for the ever-changing industry – solutions that keep you ahead of your competition. In addition to premium product performance, Struktol Customer Service initiatives have become the industry benchmark.



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