PRIME
Line

Macler *

PRIME AG
06 / 08 / 10 / 12

Alkylglucoside (C6 / C8 / C10 / C12)

Non-ionic surfactants of **vegetable origin**

Alkylglucosides are extremely versatile molecules with a wide variety of applications in the cleaning product and cosmetics industries.

They are stable in extremely acidic, neutral, and extremely alkaline pHs.

Their functions are distinguished by the length of their carbon chain. The longer the carbon chain, the greater the foaming and detergency capacity.

They are widely used because they are one of the most sustainable surfactants available on a large scale in the world, with their composition being 100% derived from plant sources.

In the cosmetics area, C10 to C12 chain alkylglycosides are used to promote better foam quality and less aggressiveness to the skin.

In the area of cleaning products, C6 to C8 chain alkylglycosides are most commonly used, as they are excellent hydrotropes, increasing the stability of highly concentrated and highly acidic or caustic products.

Below are the main distinctions between the products in this line of molecules provided by Macler:

	AG06	AG08	AG10	AG12
Carbon Chain	C6	C8	C10	C12
Foam	Low	Medium	High	
Function	Hydrotrope Cosurfactant		Synergistic Agent with Lauryl Foam Stabilizer Booster Cleaning	

Prime AG06

Alkylglucoside C06

Low Foam

Applications

COSMETICS

- Emulsion stabilizer
- Micellar water
- Makeup removers
- "Free from" products (free of petrolatum, free of sulfates)

CLEANERS

- Neutral and caustic degreasers
- Acid descalers
- Low-foam detergents: detergent and rinse aid for dishwashers, clean in place (CIP) for automatic machines, clean in place (CIP) cleaners
- Dissolution of low-solubility / low-HLB non-ionic surfactants
- Sustainable cleaners

Formulate in conjunction with Berol 840 + Alkalinizing for an efficient and low-foam cleaning!

Benefits

100% vegetable - sustainable and vegan

Low skin aggressiveness

Very low foam

Stable in extreme pHs (strongly acidic and strongly alkaline)

Excellent compatibility with any class of surfactants (anionic, cationic, or amphoteric)

Physical and Chemical Specifications

Parameters	Specifications
Physical State, 25°C	Liquid
Water (%)	23,0 - 27,0
Hexanol (%)	Max. 1,0
pH, 2% aqueous, 25°C (w/w)	6,0 - 8,0
Solids (% w/w)	73 - 77

Contraindications and Situations to Avoid

Incompatible with: Sodium Hypochlorite.

Low detergency capacity: It does not perform as an active ingredient, only as a hydrotropic co-surfactant, helping the active ingredient remain stable and functional.

It is a product that promotes low foaming, however, it is not a foam inhibiting agent and therefore should not be used as an anti-foaming agent.

Prime AG08

Alkylglucoside C08

Medium foam

Aplicações

COSMETICS

- Microemulsions
- Micellar water
- Makeup removers
- "Free from" products (free of petrolatum, free of sulfates)

CLEANERS

- Neutral and caustic degreasers
- Acid descalers
- Dissolution of low solubility/low HLB non-ionic surfactants
- Sustainable cleaners

Formulate in conjunction with Berol 260 + Alkalinizing for a highly efficient cleaning!

Benefits

- **100% vegetable - sustainable and vegan**
- **Low skin aggressiveness**
- **Stable in extreme pHs** (strongly acidic and strongly alkaline)
- **Excellent compatibility** with any class of surfactants (anionic, cationic, or amphoteric)

Physical and Chemical Specifications

Parameters	Specifications
Physical State, 25°C	Liquid
Water (%)	33 - 37
Hexanol (%)	Max. 1,0
pH, 2% aqueous, 25°C (w/w)	6,0 - 8,0
Solids (% w/w)	63 - 67

Contraindications and Situations to Avoid

Incompatible with: Sodium Hypochlorite.

Low detergency capacity: It does not perform as an active ingredient, only as a hydrotropic co-surfactant, helping the active ingredient to remain stable and functional.

Prime AG10

Alkylglucoside C10

High foam

Applications

COSMETICS

- Shampoos
- Liquid soaps
- Micellar water
- Makeup removers
- "Free from" products (free of petrolatum, free of sulfates)

CLEANERS

- Caustic degreasers
- Acid descalers
- Liquid detergents
- Peroxide-based products
- Sustainable cleaners

Associate with **Sodium Lauryl Sulfate** for **high-foam** and **100% vegetable** formulations!

Use as a **foam stabilizer** in liquid detergents!

Benefits

100% vegetable - sustainable and vegan

Low skin aggressiveness

Stable in extreme pHs (strongly acidic and strongly alkaline)

Excellent synergy with Sulfonic Acid, Sodium Laureth Sulfate, Sodium Lauryl Sulfate, and Prime AO40/AO90

Excellent compatibility with any class of surfactants (anionic, cationic, or amphoteric)

Physical and Chemical Specifications

Parameters	Specifications
Physical State, 25°C	Liquid
Appearance	Translucent
Water (%)	39,0 - 43,0
pH, 2% aqueous, 25°C (w/w)	4,0 - 7,0
Solids (% w/w)	57 - 61

Contraindications and Situations to Avoid

Incompatible with: Sodium Hypochlorite.

Some more acidic formulations may show a certain turbidity, requiring the combination of this molecule with another surfactant or AG06/AG08 for stabilization.

Prime AG12

Alquilglucosídeo C12

High foam

Applications

COSMETICS

- Shampoos
- Liquid soaps
- Micellar water
- Makeup removers
- "Free from" products (free of petrolatum, free of sulfates)

CLEANERS

- Caustic degreasers
- Acid descalers
- Peroxide-based products
- Sustainable cleaners

Associate with **Sodium Lauryl Sulfate** for **high-foam** and **100% vegetable** formulations!

Use as a **foam stabilizer** in liquid detergents!

Benefits

100% vegetable - sustainable and vegan

Low skin aggressiveness

Stable in extreme pHs (strongly acidic and strongly alkaline)

Excellent synergy with Sulfonic Acid, Sodium Laureth Sulfate, Sodium Lauryl Sulfate, and Prime AO40/AO90

Excellent compatibility with any class of surfactants (anionic, cationic, or amphoteric)

Physical and Chemical Specifications

Parameters	Specifications
Physical State	Pasty
Color	Whitish and yellowish
Appearance	Opaque
Ashes (%)	Max. 3,0
Active (%)	Min. 47
pH aq. sol. 20% + 15% isopropanol (w/w), 25°C	11,5 - 12,5
Solids (% w/w)	47 - 53

Contraindications and Situations to Avoid

Incompatible with: Sodium Hypochlorite.

Some more strongly caustic, acidic, or oxidizing formulations may show some turbidity, requiring the combination of this molecule with another surfactant or AG06/AG08 for stabilization.

For more information about these products, please refer to the SDS (Safety Data Sheet).

Contact our SmartLab and request it.

Macler* SmartLab

Contact our SmartLab and see how Macler is able to deliver much more than just a sample.
We will take all our laboratory and know-how packed in the shape of a prototype of the product you intend to develop.

There is no need to develop the product from scratch. We will deliver the formulated product and a prototype for testing.

Our Smart**LAB** is willing to help you at any time you need it, because we know the importance of the technician within the company.

We deliver a complete report with the results of the development to be presented to the decision maker in order to increase the confidence in our work.

Live the **experience** of having a **strategic partner** at your service, count on **Macler*** Smart**Lab**

Macler*

Our chemistry in **harmony** with your routine.

Macler Produtos Químicos Ltda

Rua Fritz Lorenz . 1774 . G5 . Bairro Fritz Lorenz
CEP 89.092-600 . Timbó . Santa Catarina

suporte1@macler.com
47 3323.5012
macler.com.br