

General characterisation

Chemical description

Aqueous solution of Alkyl Polyglucosides based on Synthetic Fatty Alcohol C9-C11

Labeling information

INCI name(s)

Decyl / Undecyl Glucoside

Ingredient information

Ingredient	CASR-No.	EINECS/ELINCS-No.
Decyl/Undecyl Glucoside	132778-08-6	

Product properties

Appearance

Clear, light yellow liquid

Example of use

APG® 325 N is a nonionic alkyl polyglucoside surfactant that provides superior performance by combining the formulation ease of typical nonionic with the foam characteristics of anionics. APG® 325 N provides excellent detergency and stability benefits in a variety of cleaning products. It exhibits superior wetting, dispersing, and interfacial tension reduction properties for increased soil removal, especially on hard surfaces. APG® 325 N is highly soluble in concentrated electrolyte and will hydrotrope other less soluble ingredients. In addition to these unique performance characteristics, APG® 325 N alkyl polyglucoside surfactant is made from glucose derived from corn and fatty alcohol. It is mild and readily biodegradable.

Applications:

APG® 325 N improves the performance of a variety of cleaning products for household, institutional, and industrial applications:

Hard Surface Cleaners: APG® 325 N has the wetting, penetrating, and detergency properties desired for products designed to clean surfaces such as glass, ceramic, plastic, and metal.

In liquid hard surface cleaners, APG® 325 N acts as a hydrotrope to solubilize other ingredients. This property is a definite advantage since many hard surface cleaners contain high levels of builders and solvents which have limited solubility. APG® 325 N provides other hard surface cleaning benefits which are becoming increasingly important to consumers. These include non-streaking, non-filming, and non-stress cracking of cleaned surfaces, as well as low toxicity.

Institutional and Industrial Cleaners: APG® 325 N is ideally suited for use in a variety of I&I liquid cleaning systems, especially hard surface cleaning applications. Caustic stability, builder compatibility, detergency, and hydrotrope properties combine to offer the formulator greater flexibility and better cost/performance.

Characteristic values

The specifications stated in the paragraphs 'Quality control data' and 'Additional product descriptive data' finally and conclusively describe the properties of the product.

Quality control data

(Data which is used for quality release and is certified for each batch.)

Fatty alcohol	<= 0,5 %
Ash	<= 3,0 %
Active matter	48,0 - 52,0 %
Color number Gardner	<= 7,0
pH value (10 % in Water)	7,0 - 9,5

Storage and transportation

Shelf life

24 months

Storage temperature

< + 40 °C. Store frost-free.

Storage conditions

In original sealed containers and protected from moisture.

Additional information

To avoid product discoloration, when heating do not use prolonged localized temperatures exceeding 43°C. Use tempered water when possible. Low pressure steam is acceptable if the product is monitored regularly. Excessive agitation and high shear should be avoided due to possible foam generation. APG® 325 N is preserved with Glutaraldehyde (approx. 0.01%).

Carbon steel should not be used to store or handle APG® 325 N due to probable contamination by iron. Recommended alloys include 304SS and CF8M, the cast equivalent of 316SS often used to make screwed fittings. Alloys of higher nickel, chrome, and molybdenum content are also acceptable. Contact Cognis Corporation for more details on acceptable materials for construction.

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