

GreenAPG 1214

Chemical description

Name: C12-14 alkyl polyglucoside

Surfactant Type: Nonionic

INCI name(s): Lauryl Glucoside

CAS number: 110615-47-9

Benefits

- ◆ Mild
- ◆ Rich and stable foam
- ◆ Readily biodegradable
- ◆ Superior detergency and wetting property
- ◆ Good compatibility with other types of surfactants

Product properties

Appearance

yellow, slightly cloudy and viscous liquid/paste

Applications

GreenAPG 1214 is made from renewable raw materials, glucose derived from corn, and fatty alcohols from coconut or palm kernel oil. GreenAPG 1214 is very mild and readily biodegradable. Its good dermatological compatibility and viscosity enhancing effects make it very suitable for use in cosmetic surfactant cleansing preparations.

GreenAPG 1214 is well suited for personal care and home care applications, where micellar solubilization, emulsification and detergency are required. GREENAPG 1214 function as conventional nonionic surfactant, but it is easy to formulate because they do not exhibit a gel phase upon dilution. In products such as liquid hand dish washing detergent, where high foaming and good detergency are required, GreenAPG 1214 provides excellent performance coupled with outstanding mildness.

GreenAPG 1214 are ideally suited for use in a variety of I&I liquid cleaning systems, especially hard surface applications. Caustic stability, builder compatibility, detergency and hydrotrope properties combine to offer the formulator greater flexibility and better cost performance.

GreenAPG 1214 modify the rheological properties of many particulate slurry systems, such as spray-dried detergents mixtures, and allow higher solids levels to be realized with lower viscosity profiles.

Characteristic values

The specifications herein state the “Quality Control Data” which is certificated for each batch and “Additional product descriptive data” which is proven statistically but not determined regularly.

Quality control data

ITEM	Spec Limit	Test Method
Solid content (%)	50.0-52.0	GB/T 19464(5.3)
Water (%)	48.0-50.0	100%-%Solid matter
pH value (20% in 15%IPA aq.)	11.5-12.5	GB/T 19464(5.4)
Viscosity (mPa·s, 40°C)	2000-4000	GB/T 15357
Free fatty alcohol (%)	≤1.0	GB/T 19464(5.6/A)
Color, Hazen	≤50	GB/T 3143

Additional product descriptive data

ITEM	Spec Limit	Test Method
Sulfate ash content (%)	≤3.0	GB/T 19464(5.5)
Density (g/cm ³ , 25°C)	1.07-1.11	GB/T 7379
DP value	1.3-1.5	GB/T 19464

Storage and transportation

GreenAPG 1214 can be stored in original unopened containers at the temperature below 45°C for at least two years. There may be sedimentation depending on storage time, which has no negative effects on the product quality. If the product is stored at temperatures below 38°C, crystallization may occur. In this case, the product should be warmed up to max. 50°C for a short duration and stirred until uniform before using.

For easier handling the product can be warmed up to max. 50°C for a short duration without influence onto the product specification.