



Poly Suga[®]Quat

Polymerized APG Quaternary Ammonium Compounds

INVENTORIES Canada (NDSL), US (TSCA), EU (REACH), New Zealand (NZIoC), China (IECIC L-1010P and L-1210P only)



Poly Suga[®]Quat products are made from naturally-derived, renewable resources. Poly Suga[®]Quat products are free of EO, 1,4-dioxane and residual acrylic monomers. These products are much milder in a formulation as compared to many traditional quaternaries.

FEATURES

- Derived from renewable resources
- Effective cleaning
- Long-lasting residual activity
- Compatibility with various surfaces and materials
- Enhances preservation of formulations
- Stable in a wide range of environmental conditions

APPLICATIONS

- Conditioning aid
- Hand sanitizers
- Emulsifying agents
- Cleaning agents
- Paper and pulp industry
- Oil field chemicals
- Water treatment
- Textile industry
- Agriculture

TYPICAL PROPERTIES

	L-1010P*	L-1210P	S-1210P*	TM-8610P
Appearance	Clear	Clear	Clear	Clear
pH (10% aqueous)	7.0	7.0	7.0	7.0
Solids, %	30.0	30.0	30.0	30.0
Viscosity, cP	100	500	500	100
Color, Gardner	1	2	2	1
Ross-Miles Foam Height, mm (1% active solution, 25°C, DI water)				
Immediate	165	170	145	180
1 minute	155	160	135	160
5 minute	145	155	130	155
Draves Wetting, sec.	5.6	10.6	18.8	3.6

POLY SUGA[®]QUAT SERIES

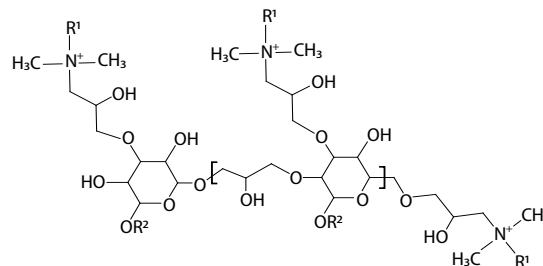
	INCI	CAS No.
L-1010P*	Polyquaternium 78	1023302-86-4
L-1210P	Polyquaternium 80	1309865-14-2
S-1210P*	Polyquaternium 81	1309865-12-0
TM-8610P	Polyquaternium 77	1309865-11-9

ENVIRONMENTAL SAFETY

Poly Suga[®]Quat products are derived from polymerized alkyl polyglucosides. The polymeric APG backbone is derivatized by attaching cationic groups along the backbone, which provide anti-corrosive properties. This process yields products that are naturally-derived and cationic in character than nonionic APG versions. The sugar moiety decreases the irritation substantially over traditional quats, allowing the formulator an expanded use of naturally-derived materials in a variety of formulations.

Poly Suga[®]Quat products are made from short and long chain quats reacted onto polymerized alkyl polyglucoside sugars. The alkyl polyglucosides vary in the alkyl group carbon chain length, giving formulators flexibility in developing products with specific attributes.

	% Biobased	R ¹ Group	R ² Group
L-1010P*	86.6	Lauryl	Decyl
L-1210P	87.9	Lauryl	Lauryl
S-1210P*	89.4	Stearyl	Lauryl
TM-8610P	78.0	Methyl	Coco



* Poly Suga[®]Quat L-1010P / S-1210P are now available in Mass Balance RSPO as **Poly Suga[®]Quat L-1010P MB** and **Poly Suga[®]Quat S-1210P MB**.

MASS BALANCE

In keeping with Colonial Chemical's commitment to sustainable raw material sourcing, this product is derived from palm oil that contributes to the production of certified sustainable palm oil. More information on www.RSPO.org.



STORAGE AND HANDLING

Poly Suga®Quat products should be stored in sealed containers at temperatures not exceeding 120°F (49°C). Shelf life is 24 months from date of manufacture. Poly Suga®Quat products are shipped in poly 55-gal drums, net weight 450 lbs (204.1 kg). Safety Data Sheet is available at www.colonialchem.com.



Colonial Chemical

Innovative Specialty Surfactants

www.colonialchem.com