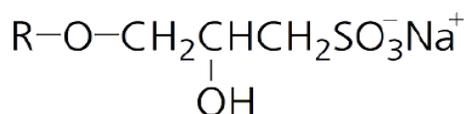


PRODUCT INFORMATION SHEET

AGS-1214, Alkyl Glyceryl Sulfonate

DESCRIPTION



CAS Number: mixture of 68081-95-8 and 7732-18-5

PHYSICAL PROPERTIES: (All properties @ 760mmHg unless stated)

Specific Gravity: N/A
Vapor Pressure: 0.3 psi at 20°C (68°F)
Melting Point: N/A
Viscosity: N/A
Boiling Point: 102°C (216°F)

Is a surfactant oligomer blend that is predominately composed (on a dry basis) of 72% AGS monomer and 13% AGS dimer, with the balance containing other molecules which influence the overall properties of AGS; 'R' in the structural diagram above refers to the different carbon chainlengths present; predominately C12 and C14. Is a white paste with a mild, soapy odor.

PRODUCT NOTES

Slightly soluble in water under ambient conditions.

GENERAL INFORMATION

APPLICATION USES

Potential intermediate and end use applications include formulations for cosmetic bars, shampoos, liquid soaps and other beauty and household products.

OIL DERIVATION/ALLERGEN/BSE/MICROBIAL

- All of our brands are produced in P&G Chemicals' global network. They are manufactured from naturally occurring vegetable oils.
- Bovine Spongiform Encephalopathy (BSE) and Transmissible Spongiform Encephalopathy (TSE) are not a concern.
- No gluten/wheat, corn, dairy, egg, fish/shellfish, sulfites, yeast, starch, MSG, peanut, other nut, rice, potential allergens are present. No preservatives or additives are present
- At the low vacuum and high temperature at which our process operates, our products are not micro-susceptible.
- Delivers excellent lather, leaves no soap scum ring and has excellent hard water tolerance. Is as mild as isethionates and adds more value to formulations. This product is milder than many other surfactants, including sodium lauryl sulfate and sultosuccinates.

RETEST DATE

Please contact P&G Chemicals directly via our website (address listed below) for questions concerning this product's stability.

P&G CHEMICALS DOES NOT PROVIDE SHELF LIVES OR EXPIRY DATES.

STORAGE AND HANDLING (recommended)

Storage Temp Targets:	Target: 60 °C (104°F)	Handling Temp Min-Max:	Max: 88°C (190°F)
Max Steam, psi:	35	Agitation/Recirculation:	Yes
Load out filter (reco):	N/A	Nitrogen Blanket	No
Sensitive Properties:	Activity, pH, free sulfites	(<1% O ₂)	
Railcar or Tank Truck:	Stainless Steel or Plasite 9573 Lined		
Storage Tank:	Lined with FRP, Lined with Plasite 9570 or 9573 with 316 Stainless Steel coils		
Pumps and Lines:	Stainless Steel or Epoxy Phenolic Lined		

For further details, or samples of this material or other P&G Chemicals products, visit our website:

www.pgchemicals.com

IMPORTANT NOTE: This technical product information and suggestions for use, while believed to be accurate and reliable, is given without creating any guarantee or warranty of any kind expressed or implied. Purchaser assumes all risk in acting on this information provided by Procter & Gamble representatives. Since product's specifications may vary on customers' basis, each purchaser is urged to perform their own tests, experiments and investigations in the use of Procter and Gamble products and for purposes of determining compliance with applicable Federal, State and local laws and regulations. Nothing contained herein shall be construed as a recommendation to use any product in connection with existing patents covering any material or its use. Moreover, no license is to be implied under any Procter & Gamble patents relating to uses of the above.