



Sustainability Profile for StarSurf™ ES 814 HG

Biodegradability:

Numerous laboratory studies have shown that the linear forms of AES, found in StarSurf ES products biodegrade quite readily under both aerobic and anaerobic conditions. Primary biodegradation of <C8 ether sulfates in river die-away studies has been found to reach 90–100% within 1 to 5 days. Ultimate biodegradation of C8 to C18 ether sulfates has been shown to reach 100% in 28 to 55 days in both oxygen demand and CO₂ evolution studies. OECD (Organization for Economic Cooperation and Development) Closed Bottle and Sturm tests have been performed on various AES compounds by a number of researchers. Biodegradation rates reaching 100% have been reported.

Sustainability Profile:

- Biodegradable

Product Attributes:

Foamer or foam booster
Viscosity builder
Primary or secondary emulsifier

Product Applications

Personal Care: Shampoos, conditioners, shower gels, baby products, and bubble baths
HI&I: Surface cleaners, all purpose cleaners, liquid detergents, industrial cleaners
Oil Field: Drilling additives, foam booster, and emulsifier
Agriculture: Adjuvant and foam booster
Textiles: Fabric washing, wet processing, and scouring

Product Information

CAS Number	68891-29-2
Chemical Description	Ammonium C8-10-alkyl polyoxyethylene sulfate

Typical Properties

Appearance	Clear Liquid
Color (Gardner)	Light Yellow max - 4
pH (10% in water)	6.5 to 8.0
% Solids	70% to 62%
Pour Point °C (°F)	-15 (5)
Freeze Point °C (°F)	-18 (0)
VOC% US EPA (Ethanol)	0%

Other Information

Standard Packaging	440 lb (200 KG) drums / 2200 lb (1000 KG) tote
International Inventories	USA (TSCA), Canada (DSL), Europe (EINICS), Korea (ESL), Japan (ENCS), Australia
	(AICS), Philippines (PICCS), China (IECSC), and New Zealand (NZIoC)
Biodegradability	StarSurf ES 814 HG is biodegradeable
Harmonized Tariff Code	3402.11.00
Toxicity	StarSurf ES 814 HG is considered non-toxic

Storage Conditions:

StarSurf™ ES 814 HG has a shelf life of at least twelve months from the date of delivery; if stored in original, unopened containers at temperatures not exceeding 40°C. Continued storage beyond the designated shelf life does not necessarily mean the material cannot be used. However, renewed testing of the most important properties is imperative.

 www.StarChemGlobal.com

To request a sample:

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