Stepan



Product Bulletin

Product Name

BIO-SOFT® E-678

Chemical Description

Fatty Alcohol Ethoxylate

CAS Number

68131-39-5

Applications

BIO-SOFT E-678 is a nonionic surfactant prepared by ethoxylating fatty alcohol. It provides moderate, stable foam and high detergency in such uses as detergents, dishwash and hand soaps. It is water soluble and highly effective at low concentrations, working well in warm and hot water applications. It can also be used as a dyeing assistant, emulsifier and wetting agent.

Typical Properties

 Hydrophobe
 Neodol 25

 Average No. moles E.O.
 9

 HLB
 13.3

 Pour Point, °C
 11

 Appearance at 25°C
 clear liquid

 Colour, APHA
 50 max.

 Activity, %
 84 - 86

 pH (1% aq.)
 6.5 - 8.5

Biodegradability

BIO-SOFT E-678 is readily biodegradable

Toxicity

BIO-SOFT E-678 is low to moderately toxic orally. (LD₅₀ is 4.15 g/kg.) Undiluted **BIO-SOFT E-678** is a moderate to severe skin and eye irritant while a 10% dilution is a generally mild to moderate skin irritant.

Storage & Handling

Normal safety precautions (i.e., gloves and safety goggles) should be employed when handling **BIO-SOFT E-678**. Contact with eyes and skin should be avoided.

It is recommended that **BIO-SOFT E-678** be stored in sealed containers and kept in a cool, dry place. If material is frozen it should be heated gently and stirred to ensure it is homogeneous before use.

Bulk Storage Information: **BIO-SOFT E-678** can be stored in vessels of 316 stainless steel, but carbon steel is adequate. Material should be stored between 37-44°C. An internal hairpin coil of carbon steel with low pressure steam (under 50 psig) should be used if heating is required. Mild agitation is required if tank is heated. 316 stainless steel is preferred for pumps, pipes and transfer lines, however carbon steel is adequate.

Standard Packaging: BIO-SOFT E-678 is available in bulk and 215 kilogram drums.

Clearances

BIO-SOFT E-678 is listed on the Canadian Domestic Substances List.

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Additional Safety Information

A Material Safety Data Sheet is available upon request.

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