Velox™ IM-EA10DP

Decyloxypropyl Iminodipropionate Surfactant

Overview

- 35% active sodium decyloxypropyl iminodipropionate in water
- Exceptional hydrotrope activity for coupling nonionic surfactants into strong electrolyte and high alkaline systems
- Multi-functional ingredient for effective cleaning performance reduces the need for other surfactants
- Moderate foam with excellent wetting properties for use in a wide range of cleaning formulations
- Unique ether-amine base for properties not matched by related chemistries

Regulatory

The substances in Velox IM-EA10DP are listed on and in compliance with the following Inventories: US (TSCA), Canada (DSL), Europe (EINECS, 265-295-2), Australia (AICS), Korea (ECL, 2004-3-2966), New Zealand (NZIoC)

CAS#: 64972-19-6

Technical Information

Velox™ IM-EA10DP is a 35% active, etheramine-based decyloxypropyl iminodipropionate amphoteric surfactant in water. Velox IM-EA10DP is an effective wetting and detergent agent stable in strongly acid, alkaline and high electrolyte solutions.

The exceptional quality of Velox IM-EA10DP allows for use in a wide range of markets and applications. HI&I Cleaners formulations can benefit from the superior wetting performance, caustic solubility and coupling performance of Velox IM-EA10DP for improved detergency, foam stabilizing and ingredient compatibility.

Formulary

Velox IM-EA10DP is a multi-functional amphoteric surfactant compatible with nonionic, anionic and cationic surfactants, providing exceptional performance in hard or soft water. Velox IM-EA10DP is a versatile surfactant for wetting, emulsification, solubilizing and emulsification in acid, neutral and alkaline formulations, improves detergency and is a highly efficient hydrotrope for coupling nonionic surfactants into strong electrolyte and high alkaline systems.

Typical Properties

PROPERTY	VALUE
Appearance	Clear amber solution
Odor	Mild
Ionic character	Amphoteric
Water solubility	Soluble
Carrier	Water
Activity, %	35.0±1.5
pH (10% aq.)	7.5±1.5
Density@25°C	1.06±0.04 g/ml
Boiling Point	Approx. 100°C
Flash point, °F	>200
Storage	Freeze/thaw stable
Shelf life	2 years

Packaging and Handling

Velox IM-EA10DP is available in:
Plastic totes
(Net Wt. 2250 lbs/1020 kgs)
Plastic drums
(Net Wt. 450 lbs/204 kgs)

Refer to Safety Data Sheet (SDS) for information on the safe use, handling, and disposal of this product.

DOT Classification: Non-Regulated

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Velox™ IM-EA10DP is a 35% active decyloxypropyl iminodipropionate amphoteric surfactant in water. Amphoteric surfactants are broadly defined as heteropolar organic compounds having two functional (ionic) oppositely charged groups per molecule. In acid solutions, the surfactant functions as a cationic amine salt, where in alkaline solutions it functions as an anionic carboxylate salt. The cationic and anionic properties are balanced at the isoelectric pH range, where an ion is formed that is simultaneously anionic and cationic.

The amphoteric nature of Velox IM-EA10DP allows its use in both anionic and cationic surfactant based products, for example anionic-based shampoos and cationic-based conditioners, and used to compatibilize mixed charge systems. The amphoteric nature and the unique specific structure of Velox IM-EA10DP suggests differentiating use in applications such as mining and oil field, where properties such as flotation correlate with an interaction of ionized properties of the surfactant with oppositely charged sites on the minerals partitioned through an association with the non-polar alkyl component properties.

Gray Beard Solutions produces a full range of alkyl sulfosuccinate surfactants, C8-C22 N-alkyl and N-amidopropyl amine oxides and betaines, and specialty amphoteric surfactants including:

Velox™ AO-Amine Oxides
Velox AO-8 (octyl dimethyl amine oxide)
Velox AO-10 (decyl dimethyl amine oxide)
Velox AO-12 (lauryl dimethyl amine oxide)
Velox AO-14 (myristyl dimethyl amine oxide)
Velox AO-16 (cetyl dimethyl amine oxide)
Velox AO-18O (oleyl dimethyl amine oxide)
Velox AO-12C (cocoalkyl dimethyl amine oxide)
Velox AO-1216 (lauryl/cetyl dimethyl amine oxide
Velox AO-12CAP (cocoalkyl amidopropyl dimethyl amine oxide)
Velox AO-1416AP (myristyl/cetyl amidopropyl dimethyl amine oxide)
Velox AO-12-2 (dihydroxyethyl lauramine amine oxide)

Velox™ AS-Alkyl Sulfosuccinates
Velox AS-D8EH 70PG (dioctyl/2-ethylhexyl sodium sulfosuccinate, 70% active in propylene glycol)
Velox AS-D8EH 75E (dioctyl/2-ethylhexyl sodium sulfosuccinate, 70% active in propylene glycol)
Velox AS-D8EH 70MSO (dioctyl/2-ethylhexyl sodium sulfosuccinate, , 70% active in mineral seal oil)
Velox AS-D6MA (dihexyl/methylamyl sodium sulfosuccinate)
Velox AS-M12 (monolauryl disodium sulfosuccinate)
Velox AS-M12-3 (monolaureth-3 disodium sulfosuccinate)

Velox™ IM-Alkyl Imino Carboxylates
Velox IM-12DP (laurimino dipropionate)
Velox IM-EA10DP (decyloxypropylimino dipropionate)
Velox IM-2EHDP (2-ethylhexylimino dipropionate)

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1931G Rohlwing Road, Rolling Meadows, IL 60008 • 800-837-0499