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Verdant

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On the following, you will find a range of secondary surfactants and specialty solutions from our partner Verdant for home, hygiene and industrial applications. Every product in this meets the regulatory requirements for its recommended uses and is made in a way that minimizes environmental impact. Many are from renewable, sustainable feedstocks.

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VERDANT

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Emulsifiers

Emulsifiers are used in cleaning formulations to incorporate non compatible ingredients (e.g. oils into water based formulations such as cutting fluids), and to hold soils in the cleaning liquor during the cleaning process. Emulsifiers are normally used in combination, i.e. mixtures of oil- and water soluble emulsifiers. All Verdant surfactants can be used to form emulsions, the choice of system being determined by the nature of the emulsion phases, their relative proportions and the type of emulsion required.

Some products of particular interest in the preparation of emulsions are:

Oil Soluble Emulsifiers:

Mackamide® CMA, CDT, CPA
Mackester GDSV

Water Soluble Emulsifiers:

Mackamide® C-5

Emulsion Stabilisers (Linkers):

Mackam® 2CY-75, 2CSF, OIP 40

Foam

Foam can be either a key function of a formulation, or an undesirable property to be controlled or eliminated. In a hand dish-washing formulation, foam is seen as a key indicator of both efficacy and quality. In many industrial processes the presence of foam can reduce both the speed and efficiency of cleaning. The Verdant range includes surfactants which will produce copious volumes of stable foam, to ingredients which produce virtually no foam, even under severe agitation or aeration.

Examples include:

High Foam:

Mackam® 50ULB, DP-122, 168L, 2CSF, 50SB, LAB
Mackam® (former Mirataine) H2C-HA
Mackamine® LA, CS, CAO E 36

Low Foam:

Mackam® OIP40, JEM, JEM, 2CY-75
Mackamine® C-8

Wetting

Wetting is the property that describes the contact between cleaning solutions and the surfaces to be cleaned. No matter how effective a cleaner or corrosion inhibitor is, if it is not in contact with the target surface, then it cannot do its job efficiently. There are some applications that require low wetting, e.g. carpet cleaning. It is important that the cleaning solution remains on the surface where the soil is and not penetrate down into the carpet backing.

Below are products highlighted for this key property:

Fast Wetting:

Mackamine® C8, 654, LA, LO, MY & C14E
Mackam® LHS-E, 168L, CB35
Mackam® (former Mirataine) H2C-HA

Slow Wetting:

Mackam® 2CY-75, CBS 50G E, LSB-50, 2CSF

Lime Soap Dispersion

Whether used in combination with soaps, or in removing soap-scum from surfaces, surfactants with the ability to perform in the presence of hard water and soap precipitates are important in the formulation of effective household and industrial cleaners. The products listed below remain soluble in the presence of calcium and are effective lime soap dispersers.

Mackam® 50-SB, CBS-50GE, DAB, 50ULB, LAB

Bleach Stability

Bleach (Sodium Hypochlorite) is used in many applications from hard surface cleaners to mould remover and drain cleaners. Surfactants are used in combination with hypochlorite to build viscosity, improve wetting, and give detergency.

The following are recommended:

Mackamine® C-8, 654, C-14, CS, CG
Mackam® CET, LHS E

High Electrolyte Cleaners

Industrial cleaning processes often use high concentrations of acids, alkalis or electrolyte to give effective performance in demanding applications. Surfactants can greatly improve the efficiency of cleaning but must be stable and effective under these harsh conditions.

Acidic Systems

Mackamine® C-8, 654, C-14E, LA
Mackam® DP-122, 168L, LHS-E

Alkaline Systems

Mackam® JEM, 2CSF, OIP-40, LSB-50,
CBS-50G, 50-SB, 2CY-75, LHS E, DP122

High Electrolyte (built) Systems

Mackam® DP-122, OIP40, 2CSF,
LSB-50, LHS, JEM, 168L
Mackamine® C-8, 654

The following trade names will change effective January 1, 2023:

Miranol® & Mirataine® to Mackam®

The changes are limited to name only. All production processes, raw materials, and related product specifications will remain unchanged. Please contact your HARKE Sales Manager with any questions or concerns.

We appreciate your continued support of this change and thank you for your loyalty.



Imprint

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