



# Tamen™ MB-12-2

*Alkyl bis(2-hydroxyethyl)benzyl ammonium chloride*

## Overview

- 80% active cocoalkyl bis(2-hydroxyethyl)benzyl ammonium chloride surfactant solution in water and isopropanol
- Excellent aqueous cleaning, degreasing and deodorizing performance
- Exceptional removal of oily soils from glass, metal and other hard surfaces
- Replace or enhance performance of standard nonionic surfactants
- Use in water-based low VOC cleaners as a full or partial replacement for alcohol and glycol ether solvents

## Regulatory

The substances in Tamen MB-12-2 are listed on and in compliance with the following Inventories: US (TSCA), Canada (DSL), Europe (EINECS, REACH: List of Pre-Registered Substances, EC#263-078-7), China (IECSC), Korea (ECL/AREC, KE-30004), New Zealand (NZIoC), Taiwan (TCSI), Vietnam (VNECI)

CAS#: 61789-68-2

## Technical Information

Tamen MB-12-2 is an 80% active cocoalkyl bis(2-hydroxyethyl)benzyl ammonium chloride solution in water and isopropanol.

Tamen MB-12-2 is uniquely optimized for degreasing, anti-static, dispersing, hydrotrope and oil solubilizing properties. Tamen MB-12-2 is designed to be used as the cationic surfactant component of a cationic/nonionic surfactant system together with chelating agents and/or builders in aqueous systems.

Highly surface active, the bis(2-hydroxyethyl) functionality affords a range of uses based on the unique properties of this material, such as cross-linked polyurethane or other isocyanate reactions. Suggested uses include cationizing textiles, corrosion inhibitors, organo-modified clays and zeolites with a wide range of adsorptive capacities, ink-jet recording sheets, papers and inks and many other applications.

Use Tamen MB-12-2 as a standalone surfactant or with amphoteric, cationic and nonionic surfactants.

## Formulary

Typical ready-to-use concentrations range from 0.03-0.1% active.

**Tamen MB-12-2 is exclusively intended for non-pesticidal use.**

## Typical Properties

PROPERTY	VALUE
Appearance	Clear pale amber solution
Odor	Mild
Ionic character	Cationic
Water solubility	Soluble
Carrier	Water, alcohol
Activity, %	78-82
pH (10% aq.)	7.0±2.0
Density@25°C	0.93±0.02 g/ml
Boiling Point	Approx. 100°C
Flash point, °F	108
Storage	Freeze/thaw stable
Shelf life	3 years

## Packaging and Handling

Tamen MB-12-2 is available in:  
Bulk  
Plastic totes (Net Wt. 2125 lbs)  
Plastic drums (Net Wt. 425 lbs)

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

DOT Hazard Classification:  
UN2920, Corrosive liquids,  
Flammable, n.o.s. (Quaternary  
Ammonium Compound, Isopropanol),  
8(3), PG II



**GBS**

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In cleaning applications, a Tamen MB-12-2/nonionic surfactant combination can be used as a non-solvent alternative to replace glycol ether and other organic solvents, with superior performance in cleaning greasy particulate soils.

Tamen MB-12-2 functions as a hydrotrope and grease dispersing agent to impart superior degreasing properties for water based degreasers, as illustrated in the Formulation Guide starting point formulations:

Formulation Guide General Purpose Deodorizing Cleaner	
Ingredient	Wt. %
Water, deionized	to 100%
Na <sub>3</sub> Citrate	0.6
Na Metasilicate 5H <sub>2</sub> O	2.0
Cretum ME-100	2.0
Tamen MB-12-2	1.5
Add ingredients in order listed Use at 4-12 ounces per gallon	



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