Product Bulletin

**Product Name**

**Chemical Structure**

![Chemical Structure](image)

**R** = 50% C₁₄, 40% C₁₂, 10% C₁₆

**Chemical Description**

n-Alkyl Dimethyl Benzyl Ammonium Chloride (CAS Registry No. 68424-85-1)

**Applications**

STEPANQUAT 8358 may provide cationic surfactant, dispersant or emulsifier properties in a formulation. STEPANQUAT 8358 may be considered for use as:
- Emulsion breakers (to de-stabilize emulsions stabilized by anionics)
- Used to make hydrophobized clays, and may hydrophobize other surfaces with negative charges (e.g. sand)
- Specialty emulsifiers
- Solids wetter and wax dispersants

**Typical Properties**

- **Appearance at 25 °C**: Clear liquid
- **pH, 10% aqueous**: 8.5
- **Free amine and amine hydrochloride**: 1.6 max
- **Color, APHA**: 150 max
- **Viscosity at 25 °C, cps**: 1000
- **Viscosity at 60 °C, cps**: 50
- **Flash Point, PMCC, °C (°F)**: 32 (89)
- **Density, g/ml (lbs/U.S. gal)**: 0.94 (7.8)
- **RVOC, U.S. EPA, % Ethanol**: 12

**Environmental Effects**

STEPANQUAT products are biodegradable. Additional information is available upon request.

**Health Effects**

STEPANQUAT 8358 is moderately toxic orally (LD₅₀ is between 50 and 500 mg/kg) at 5% active and causes moderate skin and extreme eye irritation at 5% active.

**Storage & Handling**

Handle liquid STEPANQUAT products with care; use away from sparks and open flame. Use in well ventilated area. Avoid contact with eyes, nose or prolonged skin contact. Gloves, protective clothing, safety goggles and face shield should be worn when handling STEPANQUAT products. Wash thoroughly after handling products.

**Standard Packaging**

STEPANQUAT 8358 is available in 55 gallon drums (181 kg), 275 gallon totes, and in bulk quantities.

It is recommended that STEPANQUAT products 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.

STEPANQUAT® is a registered trademark of Stepan Company.
This product bulletin has been written in accordance with ACC’s Product Stewardship guidelines.

A Safety Data Sheet is available upon request.

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**Additional Safety Information**

**Storage Handling**

**Bulk Storage Information:** STEPANQUAT quarternaries can be stored in vessels of 316 stainless steel or fiberglass with a corrosion liner. Contact between quarternaries and anionic materials must be avoided. At use dilution, STEPANQUAT quarternaries are non-corrosive to most plastics, natural rubber, stainless steel, monel metal, iron, brass, aluminum, lead and tin; however, STEPANQUAT quarternaries as supplied, may be corrosive to the materials listed above.

Liquid STEPANQUAT products should be stored between 29 – 49 °C (85 – 120 °F). An internal hairpin coil of 316 stainless steel with low pressure steam (under 50 psig) should be used if heating is required. Mild agitation is recommended while storing to maintain homogeneity. Pumps, pipes and transfer lines should be 316 stainless steel. Rubber hoses with Teflon cross-linked polyethylene with 316 stainless steel fittings are recommended for loading and unloading.

**Workplace Exposure**

Occupational exposure can occur primarily through skin contact or via inhalation of vapors and/or mists.

Engineering controls, personal protective equipment, and other workplace practices should be used to control these exposures.

**Clearances**

All components of STEPANQUAT 835 quarternaries are listed in the following countries; United States (TSCA 68424-85-1), Europe (EINECS 270-325-2), Japan (ENCS 3-2694), Canada (DSL 68424-85-1), Australia (AICS 68424-85-1), New Zealand (NZIoC 68424-85-1), Philippines (PICCS 68424-85-1), Korea (ECL Serial No. KE-29999) and China (IECSC 68424-85-1).

It is the responsibility of the formulator to review the chemical control regulations for each country where the end product is intended to be sold or used.