PILOT CHEMICAL COMPANY

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# MASON® CS-405

## PRODUCT DATA SHEET

PDS 872202.1.ACTIVE.07242023

**PRODUCT DESCRIPTION**

Mason® CS-405 is a 50% active blend of alkyl dimethyl benzyl ammonium chloride, ADBAC, and didecyl dimethyl ammonium chloride, DDAC, compounds in a water and ethanol solution. Mason® CS-405 is a versatile cationic surfactant that can be used in a wide range of applications.

**COMMON CHEMICAL NAME**

Alkyl dimethyl benzyl ammonium chloride and Didecyl dimethyl ammonium chloride

**CAS #**

68424-85-1, 7173-51-5

**TYPICAL PROPERTIES**

| | |
|---|---|
| Appearance at 25°C | Clear, colorless to light straw liquid |
| Active Quaternary (MW: 360), wt. % | 50.0 |
| Free Amine + Free Amine HCl, wt. % | < 3.0 |
| pH (10% Solution) | 6.0 – 9.0 |
| Color (as is), APHA | < 200 |
| Freeze Point | -5ºC (23ºF) |
| Shelf life | 2 years |

**APPLICATIONS**

Mason® CS-405 is a cationic surfactant that can be used in various products including HI&I deodorizers and cleaners, and personal care formulations. Mason® CS-405 can be used as an emulsifier in degreasers, pine oil and d-Limonene cleaners, and as an anti- stat in vehicle cleaners. Mason® CS-405 can be used as a deodorizer to remediate mildew odor in textiles, and as a general odor control agent in formulated sanitation products. In personal care products, Mason® CS-405 can be used as an antistatic in hair conditioning agents and personal cleansing formulations.

**ADVANTAGES**

The high purity of the starting material delivers a consistent, low color and odor, high performance product that can be differentiated into consistent, high value end-use products.

**HANDLING & STORAGE**

Refer to the Mason® CS-405 SDS (Safety Data Sheet) before handling. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment and observe good industrial hygiene practices. Store in a tightly closed container. Do not store with strong oxidizing agents. Avoid excessive heat. Recommended storage temperatures above 33°F. Product is not damaged by freezing. If material becomes frozen it should be heated gently and stirred to ensure it is homogeneous before use.

**PACKAGING**

Mason® CS-405 is available in 425 lb. poly drums, 2000 lb. poly totes and bulk quantities.

***See starting formulas and additional product information at www.pilotchemical.com.***

The information and suggestions given are drawn from data we believe to be reliable, but in all cases, the user should check and confim the suggestions and results in his own use before proceeding further. None of the suggestions or recommendations constitute freedom from any patents that may be existent in the field or be issued.

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