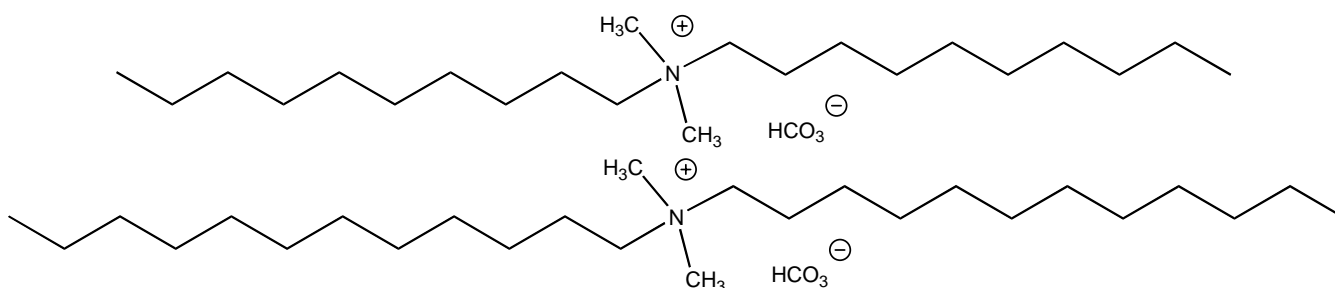


Mason[®] CS 445C/CS 525C



Dialkyldimethyl Ammonium Carbonates

Overview

MASON CS 445C is a 50% active didecyl dimethyl and MASON CS 525C is a 50% active didodecyl dimethyl ammonium carbonate/bicarbonate in a water/methanol solution, for use in EPA unregistered applications.

Cationic surfactants have a multitude of uses. MASON CS 445C/CS 525C are unique quaternary ammonium compounds that does not contain metal corroding halogens such as chloride or bromide. CS 445C/CS 525C are manufactured from a renewable resource alkyl amine derived from coconut oil and dimethyl carbonate, a biodegradable “green reagent.”

Use MASON CS 445C/CS 525C as non-corrosive cationic emulsifiers in **Marine Coatings**, a bio-mass dispersant with unique solubility parameters in **Oil Field** applications. Mix CS 445C/CS 525C with weak organic acids to enhance performance in aqueous or non-aqueous systems through an in-situ replacement of the counter-ion. The unique hard water tolerance of MASON CS 445C/CS 525C imparts differentiated performance in formulated aqueous products.

Typical Properties

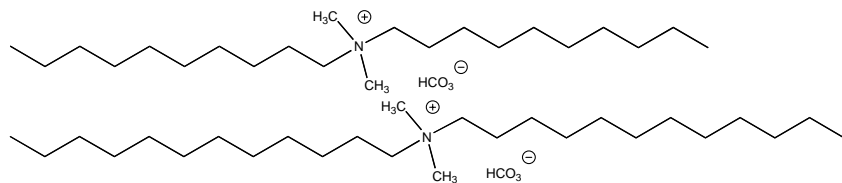
	CS 445C	CS 525C
Water solubility	Complete	Complete
Physical form	Liquid	Liquid
Active quaternary	50.0% Minimum	45.0% Minimum
Free Amine	1.5% Maximum	1.5% Maximum
Color	Colorless to light yellow	Colorless to light yellow
Specific gravity (25°C).....	0.93±0.04	0.98±0.04
Viscosity (25°C) (Brookfield)	<500cps	<500cps
pH, 10% aq.....	8±2	8±2
Flash point (PMCC).....	140°F(60°C)	73°F(23°C)
RVOC, U.S. EPA, %.....	4.5-5.0 (Methanol)	35-45 (Methanol)

Handling Information

Refer to and follow the guidelines in the Material Safety Data Sheet (MSDS) available from Mason Chemical Company for information on the safe use, handling and disposal of this product.

Mason and Masurf are trademarks of Mason Chemical Company.

Mason® CS 445C/CS 525C



Mason CS 445C is an effective fragrance solubilizer and grease cutter in deodorizer formulations that does not contain metal corroding halogens such as chloride or bromide. The following formulations illustrate this performance:

“Aviation” Deodorizer Concentrate

Ingredients:	Wt. %
<i>Aqueous Phase-</i>	
Water	64.50
Mason CS 445C	20.00
Isopropyl Alcohol	4.00
Acid Blue #9	0.75
<i>Fragrance/Oil Phase-</i>	
Citronella Oil	3.00
d-Limonene	3.00
Ethylene glycol monophenylether	0.75

Procedure:

Mix ingredients thoroughly in order listed. Add pre-mixed oil phase to pre-mixed aqueous phase. Components should mix “clear” in all proportions.

Dilute 1 ounce concentrate per gallon of water.

Natural Citronella and d-Limonene are safe and effective deodorizer ingredients in this formulation.

Effective Ready-to-Use Deodorizer

Ingredients:	Wt. %
<i>Aqueous Phase-</i>	
Water	94.0
Mason CS 445C	0.6
Isopropyl Alcohol	3.0
<i>SolventPhase-</i>	
Surfonic N95	1.0
Isopropyl Alcohol	1.0
Fragrance	0.4

Procedure:

Mix ingredients thoroughly in order listed. Add pre-mixed oil phase to pre-mixed aqueous phase. Components should mix “clear” in all proportions. If necessary, increase N95 by 0.5% increments to solubilize fragrances for clear solutions.

Use “as is.”

Spray directly on odor causing soils as a cleaning pre-step or as an ongoing odor control product.

While MASON CS 445C/CS 525C are slightly toxic orally, they cause severe skin and extreme eye irritation. As with all chemicals, use with care and caution. Avoid contact with eyes and skin, and use eye protection (goggles), gloves and protective clothing.