



MidContinental  
Chemical Company, Inc.

### Description

A unique ashless additive which increases the electrical conductivity of petroleum distillates. It is designed to reduce the electrostatic hazards associated with the handling of fuels and other hydrocarbons which otherwise have low electrical conductivity.

### Dosage

Recommended treat rate is 0.1 to 10 ppm.

# MCC AST 1400

## Data Sheet

### Product Application

MCC AST 1400 electrical conductivity additive increases the safe dissipation of electrostatic charges through the liquid hydrocarbon. This reduces the accumulation of hazardous surface charges. The use of this additive does not lessen the need to follow accepted safety practices, including bonding, grounding, and flow control.

Most distillate fuels and hydrocarbon solvents have relatively low conductivities (high resistivity). Treatment (e.g. filtration) and transfer operations cause charge separation of ionizable components in the hydrocarbon. This can result in significant surface voltages even within properly grounded equipment. If the surface voltage exceeds a critical value, an incendiary electrical discharge can occur, resulting in an explosive fire if the vapor phase is a flammable mixture.

Conductivity additive injection should utilize a continuous injection proportionating pump to deliver additive upstream of open vessels (tank trucks, storage tanks), particularly those downstream of charge generators such as most filters, pumps, and small diameter piping.

### Materials

#### ***Suitable:***

Metals: Aluminum, ductile steel, mild steel, 304 SS, 316 SS  
Plastics: HD polyethylene, HD polypropylene  
Elastomers: TEFLON TFE

#### ***Not Suitable:***

Metals: admiralty brass, copper  
Plastics: PLECI GLAS, PVC, polyurethane, fiberglass  
Elastomers: BUNA N, ethylene propylene copolymer, HYPALON PE, neoprene, VITON fluorelastomer

MCCAST1400.1213

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### Performance Features

Feature:

- Broad application

Benefit:

- Works effectively in most hydrocarbons
- Provides protection for multiple streams
- Provides downstream protection

Feature:

- Non-metallic formulation

Benefit:

- Highly compatible with other fuel additives
- Combusts completely with no ash

Feature:

- Low addition rates

Benefit:

- Minimizes additive inventories
- Controls treatment costs

Feature:

- Risk management

Benefit:

- Reduces risk of devastating losses
- Completes safety program to prevent electrostatic incidents

### Typical Properties

Specific gravity @60°F	0.89
Density (Lbs/gal)	6.93
Flash Point (PMCC°F)	59°F
Pour Point	<-40°F
Viscosity cSt @ 60°F	46 cSt
@ 30°F	92 cSt
@ 0°F	241 cSt

<sup>1</sup> Results are fuel specific

The information contained in this bulletin is to our best knowledge, true and accurate, but all recommendations or suggestions are made without guarantee, since the conditions of use are beyond our control. Disclaims any liability incurred in connection with the use of

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