PILOT® CHEMICAL COMPANY

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MACARE® AR-300

PRODUCT DATA SHEET PDS

808005.4.ACTIVE.04292026

PRODUCT DESCRIPTION

Macare® AR-300 is a 60% urea hydrochloride solution ideal for use as an alternative to hydrochloric and other strong organic acids in formulations for HI&I applications.

COMMON CHEMICAL NAME

Urea Hydrochloride

CAS #

506-89-8

TYPICAL PROPERTIES

Appearance	Colorless to light amber liquid
Acid Number, mg KOH/g	324 – 354
pH	< 1
Water Solubility	Miscible
Shelf Life	2 Years

APPLICATIONS

Macare® AR-300 can be used as a low corrosion replacement for conventional acids including hydrochloric, sulfuric, phosphoric, sulfamic, acetic and glycolic acids. Macare® AR-300 is best for use in acid hard surface cleaners such as bathroom, toilet bowl, and tub and tile cleaners for scale removal and hard water deposits.

ADVANTAGES

As an organic salt, Macare® AR-300 exhibits no heat of dilution and reduced fuming and metal corrosivity than inorganic acids such as hydrochloric acid yet is as effective as hydrochloric acid at dissolving hard water salts.

STORAGE & HANDLING

Refer to the Macare® AR-300 Safety Data Sheet (SDS) 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, corrosive resistant container with a resistant inner liner. Containers used for repackaging require vented caps. Do not store with strong oxidizing agents or metals. Avoid excessive heat. Recommended storage temperatures are 32-100 °F. Product is stable to freezing. Do not use on polished marble or similar acid sensitive surfaces.

PACKAGING

Macare® AR-300 is available in poly drums and bulk.

See 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 confirm 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.

RESPONSIBLE CARE® Driving Safety & Sustainability