

Technical Bulletin

Trilon[®] M Liquid T Chelating Agent

150 years


We create chemistry

TRILON[®] M LIQUID T is a non-toxic and biodegradable alternative to phosphates and other chelating agents, such as EDTA, NTA and citrate. An aqueous solution of the trisodium salt of methylglycinediacetic acid (Na₃MGDA), Trilon M Liquid T is a strong and highly efficient chelating agent that offers a unique combination of safety, sustainability and performance in detergents and industrial applications.

Applications:

Detergents: Stabilizes sodium perborate in detergents; sequesters heavy metal ions; effective builder for phosphate-free dishwashing detergents. It prevents hard water salts from forming scale on the surface of the dishes and contributes to increased detergency.

Cleaning: Removes calcium phosphate scale in dairy cleaning. TRILON M LIQUID T is recommended for use in dairy cleaners due to the temperatures at which dairies are cleaned, at least 80°C.

Soap: TRILON M LIQUID T can be added to curd soap, milled soap, and neat soap to prevent it from becoming rancid and discolored and to inhibit precipitation.

Scale Removal & Prevention: By redissolving metal salts and hydroxides, Trilon M liquid T can be used to treat many industrial scales. Similarly, by scavaging free metal ions, it can also be effective in preventing scale formation.

Water Softening: Softens water to prevent lime soaps from being formed; softens cooling water and industrial process water, but may corrode copper, zinc, aluminum and non-ferrous alloys. Non-ferrous metals should therefore be checked for corrosion.

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For More Information:

Order Placement

To place orders for delivery in the United States or Canada, please call our toll free number (800) 443-6460.

For Other Information

Including product literature and Material Safety Data Sheets please call (800) 443-6460.

Or Visit Our Website At:

www.performance.basf-corp.com

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Specifications

Concentration.....	39 – 41 %
Density, g/cm ³	1.29 – 1.33
pH value (1% in water, 23°C).....	11.0
Ammonia (NH ₃).....	Max. 80 ppm

Typical physical properties

Appearance.....	Clear, yellowish liquid
Molar Mass.....	271 g/mol
Concentration as MGDA-Na ₃ (mw 271)...	40%
Chelation Value.....	160 mg CaCO ₃ /g
Water Content.....	57%
Viscosity @ 23°C.....	30 mPa·s
Specific Gravity.....	1.31 g/cm ³
NTA.....	<0.1%
Solubility in water @ 20°C.....	miscible in all proportions

Shelf Life:

BASF will endorse the results on the certificate of analysis for a period of up to two years from the date of manufacture for material in original, unopened, properly stored containers. Beyond two years, we recommend the quality of the material be confirmed prior to use, by retesting the certificate of analysis parameters.

Care Chemicals