

Trilon® M – Biodegradable Chelate

New Insights into Home Care and Industrial & Institutional Applications

Trilon® M, Methylglycinediacetic Acid (MGDA) is optimally positioned to meet the trends and needs of Home Care and I&I.

Benefits

Sustainability – Regulatory – Transparency – Performance – Speed – Ease of Use

Performance

- Readily biodegradable (OECD)
- Low molecular weight -> high efficiency and cost effective
- Powerful and strong chelating agent
- Fast action on inorganic and organic scale

Labeling

- Safer choice & CleanGredients approved
- Numerous ecolabels for superior ecological and toxicological profile
- Direct release approved
- GHS label (NO health hazard label and acute toxicity)

Home Care Applications



Laundry Detergent - Fabric Treatment - Auto Dishwashing Detergents - Hard Surface Cleaners - All-Purpose & Bathroom Cleaners - Degreaser - Floor Cleaner

- | | |
|-----------------------------|--|
| Auto Dishwashing Detergents | <ul style="list-style-type: none"> • Reduce spotting & filming • Effective stain removal |
| Hard Surface Cleaners | <ul style="list-style-type: none"> • Performance synergy with strong acid cleaners • Boost performance in alkaline cleaner |

I&I Applications



Laundry - Warewash - Hard Surface Cleaners - Degreaser - Descaler - Floor Cleaner - Water Treatment - Marine Descaler - Vehicle Wash - Dye Fixer

- | | |
|-----------------------|---|
| Clean-in-Place (CIP) | <ul style="list-style-type: none"> • Superior removal of industrial scale removal • Up to 50% more cleaning power over standard chelating agent |
| Hard Surface Cleaners | <ul style="list-style-type: none"> • Increase cleaning performance for alkaline and acidic cleaners • Up to 100% more efficient over next best |
| Vehicle Wash | <ul style="list-style-type: none"> • Increase cleaning performance with near complete removal of soil |




Trilon® M has been reviewed by EPA's Safer Choice Program and qualifies for use in Safer Choice-labeled products.

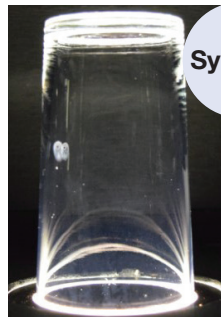
Auto Dishwashing Detergents

Trilon® M provides synergistic benefits in auto dish wash, delivering cost savings and premium distinctions, including spot and film reduction, and more effective stain removal.

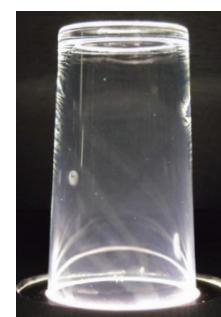
Equal Cost Mid-tier Formulations



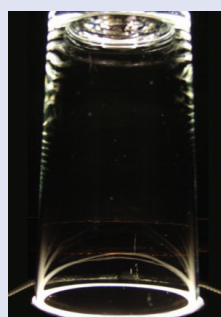
Sodium Citrate Alone



Trilon® M + Citrate



Trilon® M Alone



Trilon® M Alone
No spotting or filming!

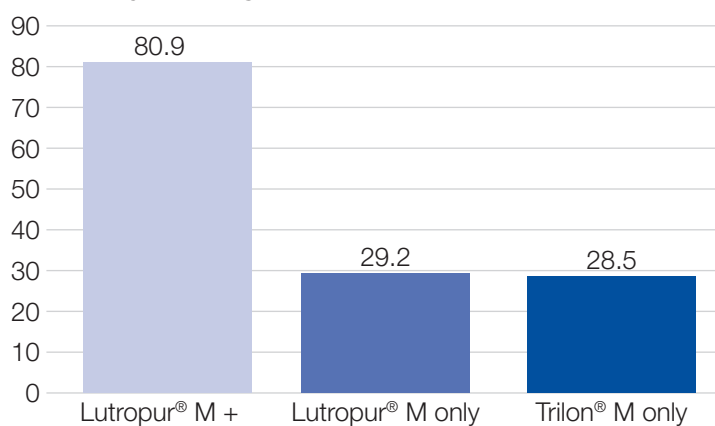
Synergy

Premium Formulation

Hard Surface Cleaners

Trilon® M exhibits superior synergy with strong acids to boost cleaning performance for potential cost-savings

Primary Cleaning - Calcium Stearate on Ceramic Tile



Lutropur® M is high purity Methanesulfonic Acid (MSA) 70% by BASF

Formulation	wt. %
Lutropur® M	1.75
Trilon® M Liq	3.81
Lutensol® XL 80	1.2
Butyl Diglycol®	1.5
Water	91.74

Vehicle Wash

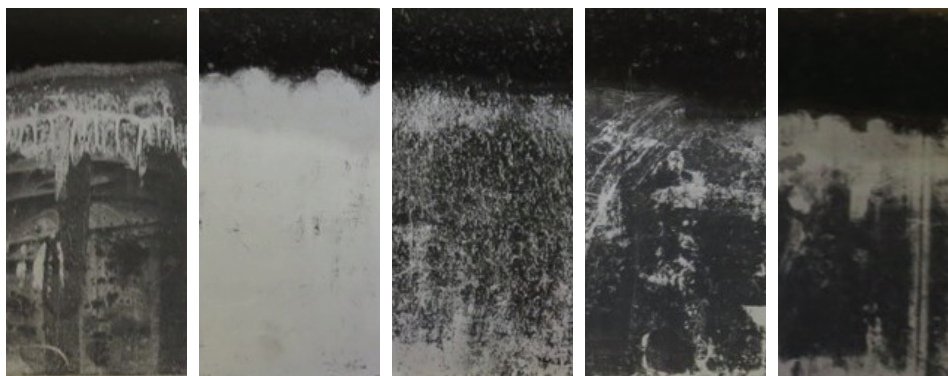
Trilon® M is most effective for water conditioning in vehicle wash and increases cleaning performance with near complete removal of soil.

No chelating agent Trilon® M GLDA IDS Sodium Citrate

Formulation	wt. %
Lutensol® XP 40	10
Anionic surfactant	5
Chelating agent (active)	4
De-ionized water	Up to 100

Greasy Soil

58% Motor Oil
17% Spindle Oil
25% Carbon Black



**Trilon® M prevents hard water antagonism
For effective vehicle washing over all other chelates**

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BASF Corporation

100 Park Avenue
Florham Park, NJ 07932
Phone: 973-245-6000
Fax: 973-245-6002
email:
detergents-cleaners-na@basf.com

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