

EMS Fortis

ALL-IN-ONE SYNTHETIC REPLACEMENT FOR ACIDIC, CAUSTIC, SOLVENT & BLEACH BASED CLEANERS

Fortis is a new technology containing three inventions, specifically made to replace dangerous cleaners used in your industry. The synthetic, non toxic nature of EMS' patented ingredients allows us to combine EMS low pH SynTech along with the high pH, non emulsifying, hydrocarbon displacement ingredient SynClean.

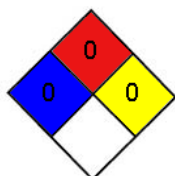
EMS' newly patented synthetic acid system, SynTech 2® replaces harsh and dangerous cleaners in industries from bathroom and toilet cleaning, vehicle cleaning, food processing, waste and water treatment. What makes EMS cleaners unique is their ability to outperform the harshest acidic and caustic solutions while remaining non-corrosive, non-skin irritating and non-regulated by the D.O.T. In fact, they are so safe, that they carry a triple-zero HMIS score.

Fortis encapsulates and lifts petroleum-based oils, vegetable and animal fats, along with dirt, soils and grime without emulsifying. This combined with no detectable BOD limits and COD limits below 100 means that Fortis will not create additional problems in your waste water streams.

Fortis also includes patented, live vegetative microbes to break down solids removes odour on contact with over 3 billion colonies per product gram of bio-enzymes and multi-cultured bacteria.

The result is a concentrated liquid that cleans, brightens, deodorizes, and protects in a simple one-step process, eliminating costly steps in the cleaning process. Simply apply by spray & wipe, or mop, then rinse if necessary. Fortis is safe on paint, metal, tiles and glass surfaces.

Fortis is NSF certified for a wide range of uses including A1, A2, A3, A4, A5, A8, C1, C2 and D1, and has been recognized for safer chemistry by the EPA's Design for Environment program and is certified as a direct release product.



For more information contact: 613 9357 0911

COMMON USES

Fortis is a super concentrated industrial cleaner, disinfectant, deodorizer, viracide, and degreaser. Its uses are not limited to janitorial cleaning and disinfection of bathrooms, toilets, kitchens etc. Fortis is an ideal bathroom and toilet cleaner because it can replace acidic cleaners, bleach, disinfectant as a single product.

Fortis will also remove rusty water stains and hard water calcium stains without affecting the surface, and will brighten stainless steel fittings.

Other uses include:

Cleaning Uses

Food Processing areas & equipment

Poultry, Meat and Fish Processing Plants

Restaurant kitchens & catering facilities

Spray in garbage dumpsters to remove odours instantly. Microbes continue to work for days.

Cargo ships

Slaughter houses

DILUTION RATIO

Regular, Light Soil and Odour - 15:1 or greater

Moderate Soil and Odour - 10:1

Severe Soil and Odour – 5:1

Apply to surface with mop or brush, then rinse. For heavily soiled areas let Fortis solution stand for 10 minutes. It may be left on to dry for severe odour problems.

Bathrooms & Toilets

For the **first clean** of very dirty bathrooms and toilets, use at 1:5 and allow to soak for 10 minutes. Remove soils by brush & mop.

Repeat the cleaning process using 1:10 solution or greater, and let it dry to maximise odour removal. Fortis can be tipped into urinals at a dilution 1:5 depending on the amount of odour present and condition of drains.

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TECHNICAL DATA

NITRATE LEVEL: 0% - None

SHIPPER REGULATIONS: None

FORM: Liquid

FLASH POINT: None

ODOUR: Mild Soapy Odour

BOILING POINT: 234° F

COLOR: Light Amber

SOLUBILITY IN WATER: 100%

DETERGENCY: Strong

BIODEGRADABLE: Yes/100%

TOXICITY: Non Toxic

VOLATILE BY VOLUME: N/A

WETTING ABILITY: Excellent

CARCINOGENS: None

STORAGE STABILITY: 3 Years+

VISCOSITY: Thin

COLD STABILITY: 26° F

EVAPORATION RATE: Slow

CLASSIFICATIONS & APPROVALS

D.O.T., TDG, IMO, IATA, IMDG, SARA 313 311/312, California Prop 65: NON-Regulated

FDA Approved as Safe (GRAS) (CGMP) CFR 184.1923

USDA Authorization A1, A2, A3, A4, A8, C1

EPA Design for Environment Recognized for Safer Chemistry www.epa.gov/dfe

NSF A1, A2, A3, A4, A5, A8, C1, C2 & D1

Metal Studies

Fortis contains SynTech, synthetic acid. It typically replaces hydrochloric acid based detergents. Dept. of Transportation (D.O.T.) Test Protocols as per Section 173.154 Exceptions for Class 8 (corrosive materials): The material being tested must be proven to be non-destructive or not to cause irreversible alterations in human skin tissue. Testing was conducted on an albino rabbit.

Conclusion: Fortis was proven to be NON DESTRUCTIVE on human skin tissue.

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Metal Test Limits: D.O.T. Classifies a material to be CORROSIVE if it has a corrosion rate that exceeds 6.25 mmpy on SAE C1020 carbon steel.

Results of Fortis: SAE 1020 carbon steel = 0.00 mmpy

Conclusion: Fortis is NON-CORROSIVE

Additional Studies & Results: When tested, Fortis showed no potential for the generation of Carbon Dioxide under NIOSH 7903, OSHA & ACGIH testing protocols governing workplace environments.

PACKAGING OPTIONS

Fortis is available in 5L, 20L or 200L drums.

For high volume applications, a 1,000L Industrial Bulk Container (IBC) is also available upon request.

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