



GNC MARINE

PRODUCT DATA SHEET

LA 20

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A unique bio-based, descaling toilet cleaner combining a widely approved biocide. Suitable for cleaning and sanitizing cabin, public and crew toilets. Reduces build-up of both inorganic and organic scale in the black water systems and helps control malodour

Product Description

LA 20 is a unique product for cleaning and maintaining toilet and black water systems on ships and off-shore installations. The product combines an excellent moderately acidic, bio-based cleaning chemistry with scale prevention and scale removal technology.

In addition, LA 20 contains a widely approved antimicrobial agent to offer an additional level of biosecurity to passengers and crew. The active antimicrobial ingredient is supported under the EU Biocidal Product Regulations for product type 2 (incl. toilet cleaners), registered by the US EPA and is approved for the Design for the Environment (DfE). It is also registered as a preservative for detergents at the Bra Miljöval in Sweden and has a generally Regarded as Safe (GRAS) status.

The active ingredient has a dual-action antibacterial mechanism and passes EN1276. It is also active against many common viruses and passes EN14476 at the in use concentrations.

The above performance requires the use of specific surfactants at a pH of between 3-4. The product pH is between these levels and in use the descaling action causes the pH to rise to a level downstream of the toilet where its biocidal action ceases. When black water enters the sewage treatment system it will not affect performance. The formulation is readily biodegradable.

Application Area

Suitable for both vacuum toilet systems and gravity fed toilet systems, urinals, showers, sauna/swimming pool discharge

Regulatory

Annex IV of the International Convention for the Prevention of Pollution from Ships (MARPOL) contains a total of 11 regulations regarding the laws and regulations surrounding sewage discharge and treatment plants on board. The revision of 1 August 2005 immediately applied to new ships engaged in international voyages of 400 gross tonnage and above or which are certified to carry more than 15 persons. Existing ships were required to comply with the provisions by 27 September 2008. The Annex requires ships to be equipped with either Type I, II or III approved systems. The US Clean Water Act (CWA) also applies the same regulations and enforced by the US Coast Guard under Regulation 33 CFR part 159.

The active ingredient in LA 20 meets the requirements of the key Biocidal Products Regulations

Features and Benefits

Features	<ul style="list-style-type: none"> • Effective toilet cleaner with built in descaling technology • Suitable for use in all marine sanitary and sewage treatment systems • Low foaming for maximum vacuum system efficiency • Bio-based and readily biodegradable • The active ingredient is registered as a disinfectant/biocide • Safe for the environment • Can be used with most common materials such as stainless steel, steel, brass, copper, PVC, polyethylene and polypropylene
Benefits	<ul style="list-style-type: none"> • Cleans and sanitizes with one product • Reduces scale prevention chemistry reduces inorganic scale build-up • Reduces both organic and inorganic build-up in sewage pipes, particularly in low water usage applications. • Reduced build-up means lower odours • Inactivated prior to entry into the sewage treatment plant and will have no effect on the biomass nor operations • Easy to use from the angle neck bottle • Reduces the number of hazardous chemicals on board • On vacuum systems with a history of severe scale build up scale can be used between descaling operations with GNC ARC 360 • On ships with gravity systems will clean and freshen washrooms and help to keep pipework flowing well

Application/Directions for Use

Flush toilet bowl, squeeze a small amount of LA 20 around the bowl surface. Allow a short contact time while the outer surfaces of the toilet are cleaned. Clean bowl surface thoroughly with toilet brush before flushing again.

For urinals activate flush if possible. Squeeze a small amount of LA 20 over the urinal bowl surface allow a short contact time whilst cleaning the outer surfaces of the urinal. Thoroughly brush surface and rinse or activate auto flush again.

For showers and baths use as above (preferably from a trigger sprayer). After cleaning, squeeze a small amount of LA 20 directly down the waste pipe and leave to soak.

The following Instructions for use are given as a guide to the user:

1. Toilets: Flush toilet bowl. Hold the bottle vertical with the nozzle under the rim. Allow a small amount of LA20 to run freely whilst circling the bowl once (this typically delivers up to 10ml/application). **AVOID SQUEEZING BOTTLE.** Brush the LA 20 over the surface of the bowl, allow a contact time while the outer surfaces of the toilet are cleaned along with other surfaces in cabin/washroom. Finally flush the toilet before leaving toilet.
2. Urinals: Activate flush if possible. Hold the bottle vertical and apply small amount of LA 20 over the urinal bowl surface. **AVOID SQUEEZING BOTTLE.** Allow a short contact time whilst cleaning the outer surfaces of the urinal. Thoroughly brush surface and rinse or activate auto flush again.
3. En-Suites: Showers and baths use as above (preferably diluted in a trigger sprayer 1 part LA 20 with 9 parts water). After cleaning, apply a small amount of LA 20 directly down the waste pipe and leave to soak.
4. It is suggested that LA 20 is used weekly on sanitaryware. For daily/frequent cleaning it is recommended to use GNC Marine General-Purpose Cleaner.

Packaging

12x1 litre angled neck bottle