



RAPITANTTM

Biosafe

RDD1 // RDD1
RDD5 // RDD5

Cleans
Disinfects
Deodorises



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RDD1 // RDD5 // RDDL1 // RDDL5

Cleans | Disinfects | Deodorises



COMPLETE PLANT BASE ODOUR & DISINFECTANT SOLUTION

CLEANS | DISINFECTS | DEODORISES

10 Seconds Immediate Action | Prevents Scale Buildup

MUST FOR:

- Urinals
- Toilets
- Hospital Washrooms
- Commercial Washrooms
- Bathroom Surfaces
- Drainage Systems
- Open Sewage Lines



› PRIMARY FUNCTION

Complete Plant Base Odour & Disinfectant Solutions for Modern Sanitation

Urban sanitation systems today face increasing pressure due to rising population density, waste generation, and high-traffic public infrastructure. Traditional cleaning agents such as phenyl, bleach, and fragrance-based deodorants often fail to eliminate the root cause of unpleasant odours. Instead, they temporarily mask smells, requiring continuous application and heavy chemical usage.

RAPITANT BioSafe is an advanced sanitation technology developed to address this challenge through scientifically engineered odour neutralisation chemistry. It's proprietary technology systematically works at the molecular level to neutralise odour-causing compounds rather than simply covering them up. This enables longer-lasting sanitation, improved environmental hygiene, and greater operational efficiency in waste-intensive environments.

RAPITANT BioSafe technology is widely suited for use as disinfectants, bathroom deodorisers, as well as in waste management systems, and municipal sanitation operations, delivering a powerful dual-action performance—disinfection combined with odour elimination.

› PERFECT FOR USE IN

- > Hospital Washrooms
- > Public & Commercial Washrooms
- > Airports Washrooms
- > Warehouses & Logistic Centres
- > Railway & Metro Stations
- > Drainage Systems

HOW DOES RAPITANT BioSafe WORK

- > Spray and in 10 Seconds the Odours dissipated.
- > Dilute 100 ml of the Rapitant BioSafe concentrate with 1 Litre of water and:
- > Spray in and around the urinals.
- > Spray on the wall and wipe with a clean cloth if required.
- > Use to mop the floor.
- > Pour in the drains to reduce odour push back.
- > Repeat every 3-4 hours.



ODOUR NEUTRALISATION & DISINFECTANT TECHNOLOGY



› SCIENTIFIC MECHANISM OF ACTION

Odours generated in sanitation environments typically arise from volatile organic compounds and sulphur-based molecules released during biological decomposition. These molecules compounds include :

Hydrogen sulphide | Mercaptans | Amines | Ammonia
Organic acids | Aldehydes | Thio-esters | others

These compounds are nucleophilic in nature, meaning they are electron-rich molecules responsible for pungent smells associated with urine, sewage, garbage, and organic waste.

RAPITANT BioSafe technology works by chemically binding with these odour molecules, altering their molecular structure and converting them into non-volatile, odourless compounds.

This reaction prevents the molecules from dispersing into the air, thereby neutralising the odour at its source.

The result is a true odour elimination process, rather than temporary scent masking.

› KEY TECHNOLOGY FEATURES

Molecular Odor Neutralisation

RAPITANT BioSafe targets nucleophilic odour molecules at the molecular level, neutralising sulphur, amine, and aldehyde-based odours commonly produced in biological waste environments.

Proprietary Chemical Formulation

The technology is built on a proprietary formulation designed to outperform conventional cleaners and air fresheners by chemically transforming malodour compounds.

Dual-Action Performance

RAPITANT BioSafe delivers both disinfectant and deodorising capabilities, allowing it to eliminate odour-causing bacteria while simultaneously neutralising unpleasant smells.

ODOUR ELIMINATION

*Conditions Apply

TECHNICAL DETAILS

Rapitant BioSafe

Product Specifications

Color/Form: Pale yellow liquid | Flash Point > 200° F (> 93.4°C) | pH 7.8
Fragrance Floral (optional) | Shelf Life 2 years | Solubility Complete | Specific Gravity 0.99

Active Ingredients

Purified Water, Pine Oil 2.5 v/v, Terpineol 5% v/v, Ethyl alcohol 5% v/v, C13-C15 branched linear ethoxylated. Plant based fragrance Optional Plus (For Hospitals only) Benzalkonium Chloride 2.5% v/v

Application : Dilution : 1:10 Ratio | How to use

Urinals | Washbasins : - Spray : Dilute 100 ml in 1 Litre of water | Spray in and around the urinal and around the washbasin | REPEAT EVERY 3 Hrs

Floor Mopping : Add 50 ml per 1 Litre of water and mop the floor

Surfaces and Walls : Dilute 100 ml in 1 Litre of water | Spray the walls & surfaces | Wipe with a clean damp cloth.

Drainage : Dilute 50 ml in 1 Litre and pour into the drain | Repeat Twice Daily

Regular Maintenance : Repeat every 3/4 Hrs



› COMPETITIVE ADVANTAGE

RAPITANT BioSafe	Conventional Cleaners
Neutralises Odours Chemically	Masks Odours with Fragrances
Long-Lasting Odour Elimination	Requires Frequent OR Continuous Application
Plant Based Chemicals	High Chemical Dosage
Dual-Action Disinfectant & Deodoriser	Multiple Products Required
Molecular-Level Odour Control	Temporary Results



› SAFETY PRECAUTIONS

FOR EXTERNAL USE ONLY

- 1.Keep the lid of the jar closed and away from children.
- 2.Store in cool dry area away from sunlight.
- 3.Dilute only with clean water.
- 4.Avoid direct skin contact.
- 5.In case of additional contact with skin and or eyes, wash immediately and thoroughly with water.
- 6.Refer to more details in the MSDS data sheet.

For more information:

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› ADVANCED SANITATION EFFICIENCY

Smarter Chemistry | Lower Environmental Impact

RAPITANT BioSafe technology is designed to deliver high-performance sanitation while minimising environmental impact. Traditional cleaning chemicals require repeated heavy dosing and often introduce excessive chemical loads into the environment.

RAPITANT BioSafe’s molecular neutralisation process reduces the need for repeated applications, improving operational efficiency.

- Operational Advantages
- Reduced chemical usage
- Lower re-application frequency
- Reduced manpower effort
- Optimised water consumption

RAPITANT BioSafe simplifies sanitation workflows by replacing multiple sanitation products with a single dual-action solution and improves hygiene outcomes.

› ENVIRONMENTAL AND SUSTAINABILITY BENEFITS

The RAPITANT BioSafe system supports more sustainable sanitation practices by improving the efficiency of chemical usage and reducing overall environmental burden.

Key sustainability benefits include:

- Reduced chemical discharge into wastewater systems
- Lower packaging and logistics footprint due to concentrated formulation
- Reduced water consumption during cleaning operations
- Reduced need for fragrance-based masking agents
- Improved sanitation outcomes in public environments

This makes RAPITANT particularly suitable for municipal corporations, smart city sanitation programs, and sustainable infrastructure initiatives.



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