



**RAPITANT™**

RDG1 // RDG5

**Biosafe**

Disinfects  
Decontaminates  
Deodorises



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# RAPITANT™

RDG1 // RDG5

Cleans | Disinfects | Deodorises

BioSafe



IITM **PRAVARTAK**  
CATALYSING INNOVATION

## ACTIVE ODOUR NEUTRALISATION FOR HIGH-WASTE ENVIRONMENTS

DISINFECTS | DECONTAMINATES | DEODORISES

10 Seconds Immediate Action  
Eliminates Bacteria On Contact

MUST FOR:

- Municipal garbage bins
- Waste compactors
- Garbage collection vehicles
- Dump yards and transfer stations
- Community waste storage zones
- Food market waste areas

Compatible with spray, misting, or fogging systems

Allows efficient application across large waste areas and waste-handling infrastructure.



### › PRIMARY FUNCTION

#### Active Odour Neutralisation for High-Waste Environments

Garbage collection points, transfer stations, waste storage areas, waste segregation stations and garbage transport vehicles are major sources of persistent foul odours due to the decomposition of organic waste. When biodegradable waste such as food residue, plant matter, paper, and other organic materials breaks down, especially in low-oxygen (anaerobic) conditions, it generates gases including methane (CH<sub>4</sub>), ammonia (NH<sub>3</sub>), hydrogen sulphide (H<sub>2</sub>S), mercaptans, amines, and volatile organic compounds (VOCs).

In addition these gases contributing to poor hygiene perception, methane is also a potent greenhouse gas and can accumulate in enclosed waste environments.

RAPITANT BioSafe provides an advanced solution for waste-related odour problems by neutralising odour-causing molecules at the source, rather than masking them with fragrances. The technology chemically binds with key odour-forming compounds that are generated during waste decomposition — particularly sulphur compounds, ammonia, amines, and organic acids — converting them into stable, odourless molecules.

RAPITANT BioSafe neutralises these gases as they are released by the collected waste, resulting in longer-lasting odour control and improved sanitation conditions in waste handling environments.

### › PERFECT FOR USE IN

- > Waste compactors
- > Garbage Collection Vehicles
- > Garbage Collection Sites
- > Garbage Segregation Sites
- > Open Drainage Systems
- > Municipal garbage bins

### HOW DOES RAPITANT BioSafe WORK

- > Spray and in 10 Seconds the Odours dissipated.
- > Dilute in 1:10 ration - 100 ml of concentrate with 1 Litre of water | Spray in & Around :
- > Garbage Vehicles
- > Garbage collection dumps
- > Open drains
- > Surfaces and walls
- > Repeat as needed



## ODOUR NEUTRALISATION & DISINFECTANT TECHNOLOGY



### › SCIENTIFIC MECHANISM OF ACTION

#### **Eliminates odour at source**

RAPITANT BioSafe neutralises released odour-forming gases during decomposition of organic waste, preventing persistent foul smells commonly found in garbage areas.

#### **Effective against waste-related gases**

Targets common gases released in garbage environments including ammonia, hydrogen sulphide, mercaptans, amines, and organic acids that contribute to strong unpleasant odours.

#### **Improves sanitation environment in high-waste zones**

Helps maintain cleaner and fresher surroundings in garbage collection points, waste transfer stations, public bin areas, housing society waste zones, and commercial disposal areas.

#### **Reduces re-application frequency**

By chemically neutralising odour molecules rather than masking them temporarily, RAPITANT BioSafe provides longer-lasting results and reducing the frequency compared to other chemicals used.

### › 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 other alternatives 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 v/v, Terpineol 5% v/v, Ethyl alcohol 5% v/v, C13-C15 branched linear ethoxylated, Pine Oil Fragrance

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

Garbage Collection Vehicles : - Spray on & around the vehicle : Dilute 100 ml in 1 Litre of water | REPEAT each time the vehicle is unloaded.

Garbage : Dilute 100 ml in 1 Litre of water | Spray on the garbage | REPEAT as needed

Surfaces and Walls : Dilute 100 ml in 1 Litre of water | Spray the walls & surfaces | REPEAT as needed

Drainage : Dilute 50 ml in 1 Litre and pour into the drain | REPEAT as needed



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## › 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 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

### Plant-Based BioSafe Formulation

A key differentiating feature of RAPITANT BioSafe is its plant-based formulation approach, which aligns with growing global demand for sustainable sanitation solutions.

Conventional cleaning chemicals often rely heavily on petroleum-derived compounds, chlorine-based disinfectants, and synthetic fragrance masking agents. While effective in the short-term, these chemicals increase environmental burden and require repeated heavy dosing.

RAPITANT BioSafe incorporates plant-derived bioactive components that deliver powerful odour neutralisation while supporting safer environmental outcomes.

It's plant-based chemistry approach supports broader global trends toward green cleaning technologies, sustainable sanitation systems, and environmentally responsible chemical usage.