

# Triple7 Odour Control Application Sheet

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# ODOUR CONTROL

## NON-TOXIC DEODO RISER & SURFACTANT CLEANER

**Triple7 Odour Control** is a readily biodegradable, non-toxic and non-corrosive plant-based product, especially designed for odour control. The product is free of ferric salts, magnesium chloride or typical chemical derivatives, enabling odour-related problems to be solved without hazardous additives.

**Triple7 Odour Control** does not react with other chemistries (eg: Chlorines) to create toxic gases and is suitable for gas-scrubbing in hazardous environments.

The science of odours is very complicated. Odours are caused (or we are sensitive to them) because of ash particles, fatty globules, gases, solvents, proteins, caustics, pheromones, and fragrances. Odours may be a combination of all of these factors. Odours are affected by oxidisers, sunlight and chemical reactions in the air, in our blood, and in our sensory receptors.

**Triple7 Odour Control** reduces odours by attaching to light aromatics, gases and attached flavonoids or constituent odour-causing substances. The product has an oxidising effect and works to convert Hydrogen Sulphide to harmless peroxide compounds, helping to prevent smells.

The product contains a highly concentrated surfactant solution that separates solids or soiling material within effluent and other odour-plagued environments. Problems with smell arise when bacteria start to die. The product breaks down the solids to provide a food source for the bacteria, consequently improving and enhancing biodegradability in a shorter time frame. **Triple7 Odour Control** encapsulates off-gases of long-chain hydrocarbons.

## Waste Water and Sludge Treatment

Rather than being a masking agent or band-aid solution, **Triple7 Odour Control** attacks the source of the problem, softening the hydrocarbons and reducing the ability of fats and grease solids to congeal and adhere to the walls of waste water pipes. This reduction in fat occlusion allows an improvement in sewer conditions and effluent flow.

**Triple7 Odour Control** can be applied at any stage in the cleaning or waste steam cycle and if the product is used at the point of discharge, then drains and sewer plumbing can be cleaned from entry point to the treatment plant.

The product may be applied via lift stations, at dilutions of 1:600 via high-pressure hoses, well washers and other similar methods.

**MOST IMPORTANTLY, TRIPLE7 ODOUR CONTROL WILL NOT HARM SEWER BACTERIA.**

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## Sludge Piles and Compost Applications

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**Triple7 Odour Control** slows the metabolic production of odour-causing micro-organisms, and manures, decaying or rotting foods, and even cadavers can be rendered odourless by product application. For pond or soil spraying, a rate of 4 litres per 100 square metres is usually adequate. Repeat surface spraying as required. The product enhances bio-degradation.

## Sewer Spills

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A Water Authority in a high profile tourist area uses **Triple7 Odour Control** for treatment of sewer spills. After removing solids and excess flooding, the product is applied to the area and atomized into the air.

**Triple7 Odour Control** has a number of unique advantages and less applications are required, compared with traditional chemicals needing daily applications.

## Cleaning Sewer Equipment

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**Triple7 Odour Control** is superior to caustic based cleaners when used for cleaning sewer equipment. Sewer maintenance crews report that nothing can match these products for ease of use and effectiveness. Additionally, filters can be restored to “as-new” condition.

## Comments from Water Boards

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“**Triple7 Odour Control** removes fats & greases and controls odours like no other product we have known.”

“**Triple7 Odour Control** does more than what is claimed on the sales brochures, not less, like competitors’ products.”

## Marine Applications

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**Triple7 Odour Control** can greatly reduce OH&S and environmental issues in marine applications.

Add **Triple7 Odour Control** directly to sewer tanks, septic tanks, toilets, etc. For toilets that constantly have problems, pour 50ml down the toilet twice weekly and ½ to 1 cup to tanks as often as required.

**Triple7 Odour Control** converts poisonous Hydrogen Sulphide gases to harmless elemental substances, thus greatly reducing the respiratory risks involved with OH&S issues in closed environments.

This non-corrosive surfactant chemistry contains a high percentage of colloid cleaner which is effective for floor and general bathroom cleaning, thus odours are removed while cleaning is being done. Any residue flushed to sewer will reduce further odours, assist sewer flow and constantly maintain pipework.

Triple7 bio-based surfactant cleaners are also effective for mould removal.

Odours within air systems can be removed by spraying triple7 Odour Control onto filter pads or misted directly into ductwork to remove odour from air flows.

Sick rooms and laundries can also benefit by spraying whenever needed and by adding to washing machine loads when necessary.

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## Marine Applications

**Triple7 Odour Control** can also be poured into open containers, diluted 1:1 and left to sit in problem areas to remove odour, or diluted 1:10 and sprayed as a room freshener.

**Triple7 Odour Control** contains no additional fragrances and is not known to cause any allergic reactions.

## Sewer Mining Systems

### Odour

To control odour, the normal dose rate is 20ppm of the waste water flow (or 20ml per 1000 litres). Extra product may be required at the beginning, as early doses will remove old sludge and slime which can add to the odour problem. Once the system is cleaner, the dose rate can be reduced.

### RO Filters

**Triple7 Odour Control** can be added to the sewer flows to force the separation of sludge & fats, therefore preventing sludge adhering to the filter.

The addition of **Triple7 Odour Control** to the back flush water will assist water to dislodge contaminants and may reduce the quantity of reverse flush water required. The product will not damage RO filters or cleaning surfaces.

### Scale

Scale forms on RO filters and in drains from low water use toilets etc. This can be prevented by constantly adding **Triple7 Odour Control**. The following methods are recommended:

**1.** Regularly cleaning toilets with **Triple7 Odour Control** will limit uric acids/adherence to the pipe work. Add **Triple7 Odour Control** to a spray bottle or bucket and clean as normal, allowing plenty to flow into the drain. Alternatively, pour product diluted 1:1 directly down the drain as a preventative and to destroy odours. **Triple7 Odour Control** does not affect the performance of bacterial toilet blocks or drain sleeves that are designed to assist low water use toilets. **Triple7 Odour Control** does not contain biocides, which destroy the activity of these systems.

**2.** **Triple7 Odour Control** can be used for cleaning along with automatic dosing without fear of overloading the system. Flow on benefits are seen in toilets, drains and water re-use systems. If the water mined from sewage is used for toilet flushing, extra product can be added at the treatment plant. This method of dosing is very effective as only 1 or 2 dosing points are required throughout the entire building.

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# Applications

<b>Abattoirs</b>	Factory water treatment, improved effluent quality and reduced odours and OH&S issues.	<b>Hospitals</b>	General cleaning of toilets, floors, walls and odour removal.
<b>Aerosol Spray</b>	For airborne odours.	<b>Liquid Waste Cartage</b>	Odour control in trucks, trailers and filling lines.
<b>Aged Care</b>	Removal of latent odours and general cleaning.	<b>National Parks</b>	Use in waterless toilets for cleaning and odour control.
<b>Animal Enclosures</b>	General cleaning and odour removal.	<b>Paint Rooms</b>	Add to air-conditioning ducts for odour control.
<b>Blocked Drains</b>	Pour in one cup last thing at night to remove fats, odours and grease.	<b>Portable Toilets</b>	Cleaning, odour control and sludge reduction.
<b>Councils</b>	Odour removal and cleaning of public toilets, buildings, grease traps, garbage collection vehicles, bins and composting areas.	<b>Public Toilets</b>	Cleaning and odour control.
<b>Caravans and Mobile Homes</b>	Removal of toilet odours.	<b>Rendering Plants</b>	General factory odour control by dosing into wash-down water mains.
<b>Carpet Cleaning</b>	Cleaning without residual chemical smell. Removes animal and post-flooding odours.	<b>Road Transport Authorities</b>	Odour control in roadside toilet blocks.
<b>Cars, Motor Vehicles etc.</b>	Cleaning carpets, seats and removal of musty or chemical odours.	<b>Septic Tanks</b>	Odour control and assisting sewer digestion. Restores drains and prevents water logging.
<b>Department of Defence</b>	Removal of odour in armed tanks, bilges and closed environments. Improvement of effluent quality in sewer tanks.	<b>Sewer Screening Plant</b>	Filters, effluent stream and treatment bins.
<b>Effluent Ponds</b>	Odour removal, assists waste biodegradation, water clarification, sludge retention and lowers BOD.	<b>Sewer Spills</b>	To destroy odours and assist biodegradability.
<b>Factory Washdown Drains</b>	Odour control and improved effluent quality.	<b>Sewer Treatment System</b>	Odour control in onsite portable sewer plants.
<b>Flood and Water Damage</b>	Removal of organics and odours.	<b>Skips, Food Waste Trucks &amp; Rubbish Trucks</b>	Odour control.
<b>Food Processing</b>	General cleaning, odour removal, cookers, drains and floors.	<b>Stoma Bags</b>	Product addition for odour control.
<b>Funeral Parlours</b>	Deodorising of cadavers.	<b>Waste Water Authority</b>	Odour control in sewage reticulation and pump stations. Removal of odours from sewer spills. Cleaning of filters, valves & pumps.
<b>Grease Traps</b>	Enhanced performance and odour control.	<b>Wet Scrubbers</b>	Addition to water reservoir for odour control and sludge removal.
		<b>Winery Addition</b>	Addition to filling lines, drains and holding lagoons.

## Triple7 Products Testimonials

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“Thank you for your letter of 24/4/2003, re:  
Testimonial for **Triple7 Odour Control** product.  
I am happy to provide a testimonial for the product in relation to its use in long drop and vault toilets in parks. It does work in controlling and eliminating odours in these kinds of toilets by pouring a drink can full of the product into the toilet each week. It is simple to use and very effective.”

### **Acting Ranger-in-Charge**

“We operate a Septic Tank/Grease Trap cleaning company on the Mornington Peninsula. We used to have problems with odours coming from our suction hoses, which are stored in a tray on the side of the holding Tanker. Even though they are routinely cleaned between sites, it is very difficult to control residual odours.

Products we used in the past were either hazardous and not eco-friendly or simply tried to mask the problem with strong fragrances.

Recently we trialed your odour control at 5% dilution, applied using a simple trigger spray bottle. We noticed that very quickly the odours had virtually disappeared, except for those coming from inside the hoses. We then sprayed in each opening of the hoses and the odours became virtually undetectable, even very up-close.

This meant that when we arrived at the next job, the customer didn't detect odours coming from the truck.

This is a big plus for our business, as first impressions are very important and we continually strive for best practice. Another plus was that costs are minimal and your product is non-harmful and eco-friendly.

We were also impressed with the results of the truckwash and safe hand cleaner. The truck wash didn't affect the paintwork or promote corrosion and when used neat as a degreaser, it didn't leave a grey/whitish residue on any parts as was previously experienced with caustic based cleaners. In conclusion we have no hesitation in recommending your products.”

### **Liquid Waste Transporter.**

“ I am writing to you to express my satisfaction with **Triple7 Odour Control Concentrate**. We have been using this product for approximately 12 months to assist in the breakdown of wet- well toilet systems and for odour control. We have found the product to be very efficient – only requiring 1 cup per week for toilets that can have upwards of 80 uses per day in peak season.

We have recently had the system pumped out and no water was required to assist in this, meaning that all solids had been broken down.

I would recommend this product to anyone dealing with this sort of toilet system.”

### **National Park Employee**

“**Triple7 Odour Control** products have been used in our wet scrubber for the past six months. Our wet scrubber filters overspray from a spray booth in which alcohol and water-based primers are used. We have found that they retard odours and help keep the system free of organic build-up with out the need for added chemicals.”

### **Wet Scrubber company**

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## Toilet Manufacturer Testimonial

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### Client:

Manufacturer of factory built toilet units and concrete ablution buildings, N.S.W. Cleaning and odour control in ablution blocks, pit toilets and all national park style toilets.

### Product Used:

**Triple7 Odour Control**

### Problem:

Complaints and potential health risks from smelly toilets.

### Feedback:

“We recommend the use of the above product for our collection well systems we sell with our factory built toilet units.

We have supplied several N.S.W. National Parks with a package of building and a scaled collection well placed under the building.

These parks have made a decision to take all waste from the park for treatment at a municipal treatment works.

The collection well is charged with seed water at commissioning – generally about 15% of capacity. The only addition is direct deposit from the pedestal and sink outfall.

Large black heat absorbent vent stacks are fitted, with wind driven ventilators.

A management program specifying **Triple7 Odour Control** at the weekly cleaning interval had proved excellent for odour elimination.

Feedback from our clients indicate that even with the heavy usage, the facilities are pleasant to use and odour free.

### Advantages:

- > No more trouble with blow flies,
- > Your toilets will be odour-free,
- > You will be protecting our environment.

We now recommend with all our installations, a management program using **Triple7 Odour Control**.



## ODOUR CONTROL IN WET WELL



Odour problems in this wet well were overcome by misting the well with **Triple7 Odour Control**.

Effluent was being added from local and national water craft.

## ODOUR IN WET SCRUBBER



The pictured spray booth is used for solvent and water-based paint primers and is fitted with a wet scrubber, using **Triple7 Odour Control**.

## ODOUR CONTROL AT SEWER TREATMENT PLANT



Untreated sewer from initial stage of treatment. **Triple7 Odour Control** is misted over bin by nozzles attached to outlet pipe.



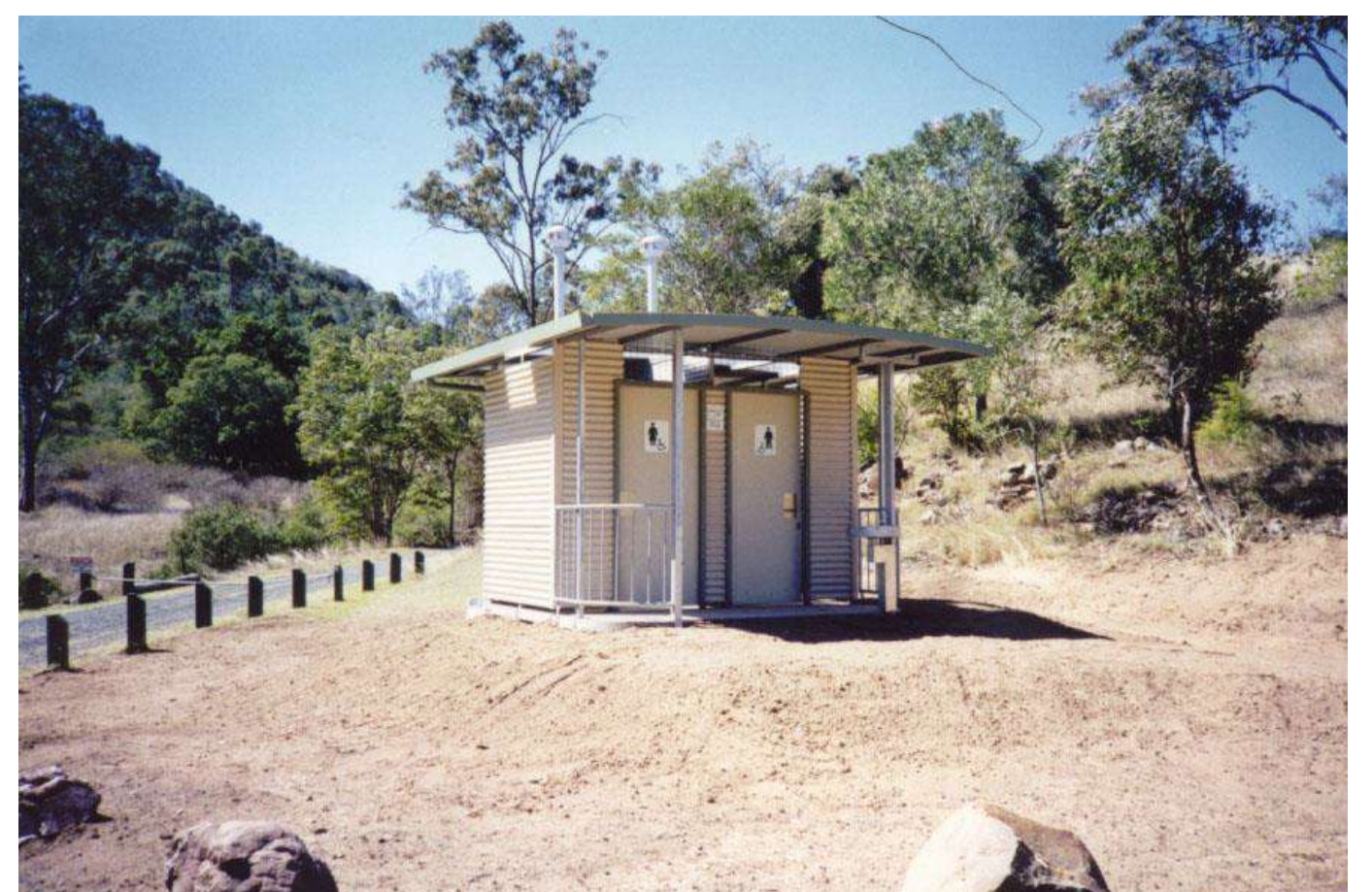
Finally treated sludge is ready for landfill. **Triple7 Odour Control** was added to bins to reduce odour in transit and at landfill sites.

## CONTROLLING ODOURS AT RENDERING PLANT



Offal at rendering plant. This plant has **Triple7 Odour Control** dosed into the wash-down water to keep all areas clean and odour free.

## NATIONAL PARK AMENITIES BLOCK



Amenities block at National Park. Odour was greatly reduced by regularly adding **Triple7 Odour Control**.