



# Making life easier and safer for all on board

High performance non-toxic & non-hazardous  
descalers, degreasers and cleaning chemicals

# The Australian Department of Defence

## **triple<sup>7</sup> Enviroscale**

- > Non-toxic / low corrosion scale remover.
- > Maintains integrity of cleaning surfaces.
- > Reduces maintenance & lowers disposal costs.
- > Worksafe & environmentally responsible.

## **triple<sup>7</sup> Heavy Duty**

- > Powerful non toxic cleaner / degreaser.
- > Oil / water separator, non-corrosive.
- > Protects equipment - reduces maintenance costs.

## **triple<sup>7</sup> Iodosan**

- > Broad spectrum, iodine based microbiocide & sanitiser.
- > Quick kill, low residual.

## **triple<sup>7</sup> Odour Control**

- > High performance cleaner / deodoriser.
- > Destroys odours, improves water quality for re-use; easier maintenance.

## **triple<sup>7</sup> Metal Shine**

- > Powerful organic cleaner & polishing compound.
- > Brightens & protects metal surfaces.
- > Non-toxic & non-corrosive.

## **triple<sup>7</sup> Aircraft & Metal**

- > High performance cleaner / degreaser.
- > Designed for aluminium & soft metals
- > Milspec & Boeing approved.

## The Australian Department of Defence

triple<sup>7</sup> worksafe and environmental chemistries provide complete solutions to specialised cleaning requirements within many areas of the Department of Defence.

### Benefits include:

- High performance
- Less corrosion
- Odours eliminated
- Lower disposal costs
- No toxic off-gassing
- Safer handling
- Reduced OH&S issues
- Environmentally responsible

triple<sup>7</sup> products are formulated from non-ionic, linear alcohol surfactants made from organic derivatives and all products provide extraordinary surface cleaning without any of the 32 toxic substances that are the framework of cleaning chemistries today.

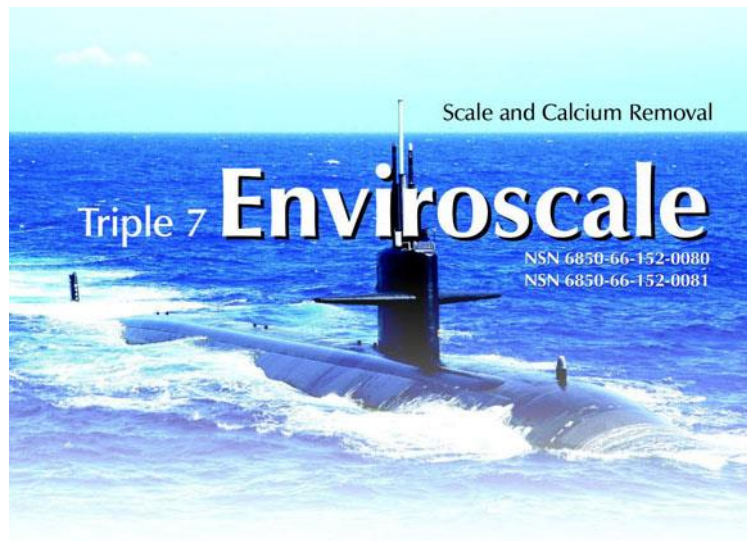
These powerful non-toxic solutions are made from renewable resources and are suitable for use in confined spaces. The products have no special handling or storage requirements.

triple<sup>7</sup> solutions enhance system performance, enable easier maintenance, extend equipment life, while decreasing whole-life costs and providing healthier working conditions.

Applications include scale removal, sanitising, degreasing and water treatment through to laundry products, kitchen wash solutions and metal working fluids. triple<sup>7</sup>'s unique formulations can offer the Department of Defence 10% – 20% savings on maintenance costs and extend the usable life of all surface materials by 10% to 15% overall.

Environmental Fluid Systems, the supplier of triple<sup>7</sup> products has a Letter of Recognised Supply from Department of Defence with a CAGE code - **Z02N8**.

<b>triple<sup>7</sup> Heavy Duty</b>	<b>5 litres</b>	<b>Part No. AAHD-5</b>	<b>NSN 7930-66-159-7251</b>
<b>triple<sup>7</sup> Heavy Duty</b>	<b>20 litres</b>	<b>Part No. AAHD-20</b>	<b>NSN 7930-66-152-0078</b>
<b>triple<sup>7</sup> Heavy Duty</b>	<b>200 litres</b>	<b>Part No. AAHD-200</b>	<b>NSN 7930-66-152-0079</b>
<b>triple<sup>7</sup> Enviroscale</b>	<b>20 litres</b>	<b>Part No. AAESCAC-20</b>	<b>NSN 6850-66-152-0080</b>
<b>triple<sup>7</sup> Enviroscale</b>	<b>200 litres</b>	<b>Part No. AAESCAC-200</b>	<b>NSN 6850-66-152-0081</b>
<b>triple<sup>7</sup> Odour Control</b>	<b>5 litres</b>	<b>Part No. AAOC-5</b>	<b>NSN 6840-66-154-6200</b>
<b>triple<sup>7</sup> Odour Control</b>	<b>20 litres</b>	<b>Part No. AAOC-20</b>	<b>NSN 6840-66-159-7256</b>
<b>triple<sup>7</sup> Iodosan</b>	<b>20 litres</b>	<b>Part No. AAIOD-20</b>	<b>NSN 7930-66-153-2102</b>
<b>triple<sup>7</sup> Metal Shine</b>	<b>5 litres</b>	<b>Part No. AAMETS-5</b>	<b>NSN 7930-66-156-0358</b>
<b>triple<sup>7</sup> Aircraft &amp; Metal</b>	<b>5 litres</b>	<b>Part No. AAAM-5</b>	<b>NSN 6850-66-159-7245</b>
<b>triple<sup>7</sup> Aircraft &amp; Metal</b>	<b>20 litres</b>	<b>Part No. AAAM-20</b>	<b>NSN 6850-66-159-7248</b>
<b>triple<sup>7</sup> Aircraft &amp; Metal</b>	<b>200 litres</b>	<b>Part No. AAAM-200</b>	<b>NSN 6850-66-159-7249</b>
<b>triple<sup>7</sup> Safewash Liquid</b>	<b>5 litres</b>	<b>Part No. AASWL-5</b>	<b>NSN 7930-66-159-7257</b>
<b>triple<sup>7</sup> Safewash Powder</b>	<b>2 Kilograms</b>	<b>Part No. AASWP-2</b>	<b>NSN 7930-66-157-7258</b>



## **triple<sup>7</sup> EnviroScale a powerful organic scale remover.**

**AAESCAC-20 20 litres NSN 6850 - 66 - 152 - 0080**  
**AAESCAC-200 200 litres NSN 6850 - 66 - 152 - 0081**

- > **Non-toxic / non-hazardous – low corrosive**
- > **Easier maintenance – lower disposal costs**
- > **Maintains integrity of cleaning surfaces**
- > **No special handling / storage issues**
- > **Suitable for confined spaces**
- > **Protects personnel & our environment.**

**CAGE No. Z02N8**

MRO Panel Member (SON) 404267

## *Cleaner Safer Greener*

### **Product Application Sheet - SCALE AND CALCIUM REMOVAL**

Mineral scale is a build-up of insoluble sulphate and carbonated salts - the result of exposure to salt water and calcium containing solutions including soaps, reagents and bacteriocides. Traditional chemicals including phosphoric acid, metasilicates and chlorine, present special handling and discharge issues and most of these products are inherently toxic and non-biodegradable.

triple<sup>7</sup> EnviroScale is a non-toxic, bio-based scale remover, designed for its effectiveness, safety to you, the cleaning surface and the environment. The product is a unique formulation of non-ionic surfactants, fruit based acids and botanical additives which create a powerful scale remover.

triple<sup>7</sup> EnviroScale will not harm equipment and gives longer life cycle maintenance and consequent cost advantages. Applications include; pipework, heat exchangers, boilers, condensers, wet-scrubbers and chillers.

#### **Benefits**

- > No special storage/handling requirements
- > Fully biodegradable, no offensive odours
- > No petroleum products
- > Cost effective
- > A long term solution to scale removal
- > Non-toxic, low corrosion
- > Will not harm metals, rubber, plastics
- > Longer life cycle of assets
- > Not affected by water hardness
- > No oxalic acid.

#### **Heat Exchangers, Condensers and Chillers**

Use a 1:10 solution of triple<sup>7</sup> Heavy Duty and circulate for 4 to 6 hours prior to scale removal. Rinse free with water. Apply a 1:10 solution of triple<sup>7</sup> EnviroScale and allow to circulate for 8 - 16 hours. Maintain a pH of less than 3.0 (ideally overnight) and then follow with a thorough water rinse. Repeat if necessary.

#### **Bilges**

Empty bilge, ensuring that correct safety practices are in place to deal with any toxic fumes present. Clean with Heavy Duty at 1:10, rinse with water, followed by EnviroScale maintained at a pH less than 3.0.

#### **Pipework**

Soak in a hot solution of 10% (1:10) Heavy Duty overnight to unblock. Water rinse, then flush with a 10% (1:10) solution of EnviroScale maintained at a pH less than 3.0 to remove scale.

### **PUMPS & WATER HANDLING EQUIPMENT**

#### **For dismantled pumps and parts:**

Place in container and cover with 50:50 EnviroScale and water. Monitor pH level and add more product if pH rises above 2.5. If pH has risen too high, discard solution and recommence cleaning process. Water rinse and re-assemble.

#### **For assembled pumps in the workshop:**

Cover fully assembled pump with sufficient triple<sup>7</sup> EnviroScale solution (between 10%(1:10) and 50%(1:1). Run the pump. Check for over-heating and ensure pH level is maintained below 2.5.

As the pH level rises, add more EnviroScale. Change liquid occasionally if needed.

## Product Application Sheet - SCALE AND CALCIUM REMOVAL

### PREVENTATIVE MAINTENANCE:

triple<sup>7</sup> EnviroScale is pH dependent and cannot be dosed into the system.

triple<sup>7</sup> Colloidal Concentrate is recommended to prevent iron bacteria or iron sludge from accumulating and a simple dosing pump that adds 5-20 ppm on a regular basis, gives good results.

A complete descaling program involves using EnviroScale to thoroughly remove accumulation. Once clean, Colloidal Concentrate is added regularly to prevent further problems.

### MARINE MAINTENANCE:

triple<sup>7</sup> EnviroScale is included in the Navy Technical Acquaint for scale removing compounds.

**NSN 6850-66-152-0080, NSN 6850-66-152-0081.**

### Demister Pads

Remove pads and spray the entire pad with a 5% (1:20) solution of Heavy Duty. Soak or stand overnight then follow with a low pressure steam clean.

triple<sup>7</sup> EnviroScale is successfully used to flush heat exchangers and sewer systems on the HMAS fleet without first removing the exchangers from the ship. This gives considerable cost and time savings and allows a faster turn-around, along with a high standard of cleaning.

## VALVE CLEANING

“Before and After” photographs showing valve cleaned using EnviroScale and Heavy Duty.



# Product Application Sheet - SCALE AND CALCIUM REMOVAL

**The following are extracts only, taken from Department of Defence, Technical Acquaint 012/05**

## **"Subject: SCALE REMOVING COMPOUNDS**

Applicability: All DMO, MSD agencies, Navel Establishments and Fleet wide."

References: E. Triple 7 EnviroScale (Acid) Material Safety Data Sheets."

**" 5. The descaler listed under reference E is based on a concentration of 1.6% of combined citric and lactic acids. Under some circumstances this product could offer advantages in that it can be safer to handle, produce less etching on metal surfaces and could present less problems with disposal."**

" 6. These descalers are codified in the Stores System under the following NSNs and are available from the following Australian agents."

**"Triple 7 EnviroScale (Acid) 20 litres NSN 6850 - 66 - 152 - 0080**

**Triple 7 EnviroScale (Acid) 200 litres NSN 6850 - 66 - 152 - 0081"**

## **Environmental Fluid Systems**

P.O. Box 1280 Warrnambool VIC 3280

T: 1800 777 580 F: 1300 557 919

E: sales@efsgroup.com.au

## **" Distribution:**

- ALL SHIPS
- CME
- FFGSPO
- FIMA PERTH
- AASSPO
- FIMA CAIRNS
- ANZAC SPO
- FIMA SYDNEY
- COLLINS SPO
- FIMA DARWIN
- PBSPO
- RPLSS WA
- SCRO EA
- ADI RPLSS GARDEN ISLAND
- SCRO WA
- FIMA WATERHEN
- FMEO
- HMAS CERBERUS ENGINEERING FACILITY. "

As discussed in our telephone conversation, here is a summary of the successful use of triple<sup>7</sup> cleaners that we have used on **HMAS DECHANEUX** during the current refit. I apologise for the delay in replying as I have tried to list only jobs carried out during this docking which in turn makes it easier for Peter Clark of the A.S.C. to verify.

\* **SLOP DRAIN TANK 2 FLUSH**

We used triple<sup>7</sup> Heavy Duty cleaner for the flush which was scheduled to take place over a 24 hour period, but due to delays in defueling, the flush had to be reduced to an 8 hour trial. On opening the tank A.S.C. My Self and Ships Staff noticed there was no presence of HYDROGEN SULPHIDE GAS or any of the usual sickly smell associated with this tank. The tank contents were visibly more broken down than usual which made our job of cleaning a lot more efficient. I would hope that the next flush on this tank we can complete a 24 hour flush so as to really see the full effects of the triple<sup>7</sup> product on its contents.

\* **MCR NO 905108 PIPE WORK FLUSH**

We were requested to flush out and rinse three lengths of piping which had been removed from slop drain tank 2. We completed this task by firstly soaking the pipes in a hot water solution of triple<sup>7</sup> Heavy Duty Cleaner overnight to try and unblock them. The next day we noticed that the blockages had completely dissolved away, leaving us to quickly rinse them and return them like new to be painted and refitted back in the tank.

\* **DEMISTER PADS**

This task required DELVEX to degrease and steam clean the demister pads which had been removed from the upper level of the M.G.R. Bilge.

We firstly sprayed the entire pad in a solution of 1 part triple<sup>7</sup> Heavy Duty to 20 parts water, left them to soak overnight then low pressure steam cleaned them thoroughly. We removed a large amount of oil and grease from within the pads. On completion we returned the Demister pads back to the A.S.C. for refitting in the MGR Bilge.

I do hope this information is useful to you Roman. If there is any more you require please do not hesitate to get in touch with me.

Yours Sincerely,





## triple<sup>7</sup> Heavy Duty

AAHD-5	5 litres	NSN 7930 - 66 - 159 - 7251
AAHD-20	20 litres	NSN 7930 - 66 - 152 - 0078
AAHD-200	200 litres	NSN 7930 - 66 - 152 - 0079

### High performance organic cleaner & degreaser

- > Extra solvency power without harsh chemicals
- > Enhanced oil / water separation
- > Non-toxic / non-corrosive / natural rust inhibitor
- > Easier maintenance / extended equipment life
- > Lower Disposal Costs
- > Suitable for use in confined spaces
- > Reduced OH&S issues
- > Readily biodegradable, organic listed (OMRI).

**CAGE No. Z02N8**

MRO Panel Member (SON) 404267

## Product Application Sheet – triple<sup>7</sup> HEAVY DUTY

The triple<sup>7</sup> Heavy Duty liquid formulation contains a powerful surfactant system and a bio-based solvent which gives you the benefit of solvency power, when cleaning.

The product is a water-based formulation that removes oils and lubricants, blood, fats, mould and mildew without reacting or damaging the treated surface.

Most importantly, triple<sup>7</sup> Heavy Duty is a genuine powerful organic product that has no special handling or storage requirements and is environmentally responsible.

### **BENEFITS:**

- > Adds extra solvency power to cleaning
- > Non corrosive to equipment & machinery
- > Suitable for use in food preparation areas
- > No special handling & storage issues
- > Highly concentrated
- > Cleans and deodorises
- > Suitable for use in confined spaces
- > Cleans pipework & maintains flow rates

### **triple<sup>7</sup> Heavy Duty is free of:**

- > Petroleum distillates, Builders or reagents, Glycol ethers, Terpenes, Synthetics, Caustics, Volatile Organic Compounds (VOC's)

### **and is:**

- > Readily biodegradable
- > Non-toxic / Non-flammable
- > Non-carcinogenic
- > Derived from renewable resources
- > Organic Listed (OMRI)
- > Environmentally responsible

## **APPLICATIONS**

### **Degreasing**

Very heavy duty degreasing projects such as charred oil or fuel enamel, often require a solvent to expedite the cleaning process. If so apply triple<sup>7</sup> Easysolve, let stand for 10 minutes, then apply a 10% (1:10) solution of triple<sup>7</sup> Heavy Duty at 40°C, followed by a warm water rinse.

When a warm water pressure clean is used, the solution strength may be reduced to 2% (1:50) followed by a final water rinse.

The following dilution rates are guidelines only and each application depends on temperature, dwell time and agitation.

Extra heavy grease deposits: 1:1 - 1:2 parts water.

Heavy to moderate deposits: 1:2 - 1:10 parts water.

Moderate to light deposits: 1:10 - 1:100 parts water.

# Product Application Sheet – triple<sup>7</sup> HEAVY DUTY

## MARINE APPLICATIONS

### **Benefits:**

- > Does not cause an emulsion
- > Assists oil/water separators and grease traps to function properly.
- > Does not damage rubbers & seals.
- > Will clean into creases, joins & seals.
- > Is non-ionic – works by ‘lifting & releasing’ to give a better clean.
- > Is low foaming, reducing problems in waste tanks.
- > Excellent for closed environments due to reduced toxins.
- > Will keep drainlines clean.

*“Enhances safety without compromising performance.”*

## COMPONENT CLEANING

**Results of a trial conducted to assess the effects of triple<sup>7</sup> EnviroScale (descaler) and triple<sup>7</sup> Heavy Duty (degreaser) on a variety of materials. Date: 6<sup>th</sup> September 2006.**

The trial was conducted over 5 consecutive days using the same set of materials, immersed in a concentrated solution of each product.

1. Materials immersed in concentrated solution (100%) of triple<sup>7</sup> EnviroScale (descaler).

Materials	Initial Weight (grams)	Final Weight (grams)
1. CuNi 90/100 Tube	108.6	108.6
2. NiAl Bronze Rod	190.0	190.0
3. SS 316 Hollow Section	246.7	246.7
4. Monel Rod	49.9	49.9
5. Gun Metal Rod	308.4	308.4
6. Neoprene Rubber Gasket	17.3	17.3
7. Nitrile Rubber Sheet	47.8	47.8
8. Viton 'O' Ring	7.6	7.6

Duration of test: 152.00 hours

Initial pH: 1.7

Final pH: 1.7

Initial temp: 20°C

Final temp: 20°C

**No weight loss or obvious change in appearance, dimensions or physical properties was observed on the metallic and rubber samples.**

2. Materials immersed in agitated solution of concentrated (100%) of triple<sup>7</sup> Heavy Duty (degreaser).

Materials	Initial Weight (grams)	Final Weight (grams)
1. CuNi 90/100 Tube	108.6	108.6
2. NiAl Bronze Rod	190.0	190.0
3. SS 316 Hollow Section	246.7	246.7
4. Monel Rod	49.9	49.9
5. Gun Metal Rod	308.4	308.4
6. Neoprene Rubber Gasket	17.3	17.3
7. Nitrile Rubber Sheet	47.8	47.8
8. Viton 'O' Ring	7.6	7.6

Duration of test: 9.00 hours

Initial pH: 10.6

Final pH: 10.6

Initial temp: 20°C

Final temp: 20°C

**No weight loss or obvious change in appearance, dimensions or physical properties was observed on the metallic and rubber samples.**

# COMPONENT CLEANING



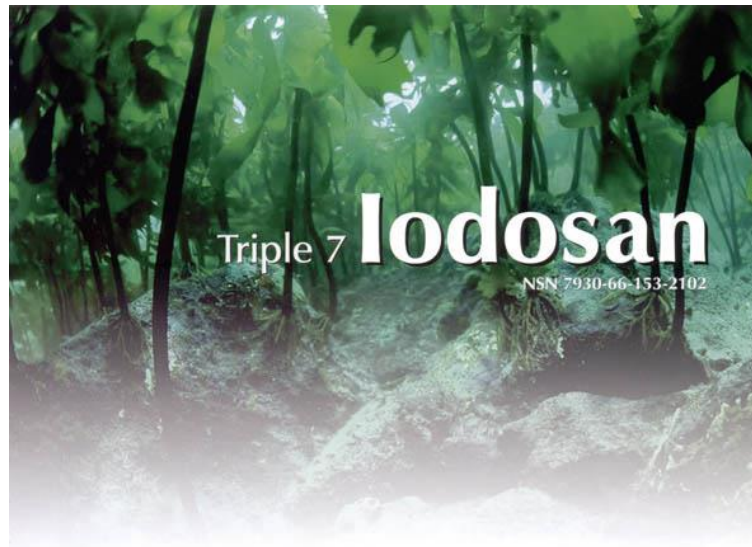
Before

Samples before treatment.



After

Samples after treatment.



## **triple<sup>7</sup> IODOSAN**

**AAIOD-20 20 litres NSN 7930 - 66 - 153 - 2102**

**Broad spectrum, iodine based microbicide & sanitiser.**

- > Quick kill**
- > Low residual**
- > Powerful wide-range sanitiser**

**CAGE No. Z02N8**

**MRO Panel Member (SON) 404267**

## **Product Application Sheet - IODOSAN**

**triple<sup>7</sup> Iodosan** is a broad spectrum, detergent disinfectant with a light iodine odour. Like all iodine-based preparations, the product relies on free iodine for its anti-microbial activity. However, in the case of Iodosan an additional antimicrobial factor operates.

### **Benefits**

- > triple<sup>7</sup> Iodosan is a broad spectrum microbiocide which is effective against; bacteria (gram positive and gram negative), viruses, moulds, fungi, spores, etc. including tubercle bacilli (TB), the AIDS virus, poliomyelitis and Newcastle disease.
- > Non-toxic, non-sensitising, non-irritating, non-staining, non-corrosive and virtually odourless.
- > Is not de-activated by hard water and is far less de-activated by organic matter than other biocides.
- > Amber colour acts as an activity indicator - when colour disappears, iodine is exhausted.
- > Complies with the requirements of SABS specifications 1081 (1976).

### **Applications**

- > Bilges
- > Sewage and effluent holding tanks
- > Floors, walls, galley areas
- > Hospital wards, operating theatres & instruments
- > Laboratory and instrument disinfection.
- > Mortuaries.
- > Sanitising glasses and dishes.
- > Garbage bins & refuse containers
- > Food baths, swimming pools, change-rooms
- > Shower cubicles.
- > Ambulances

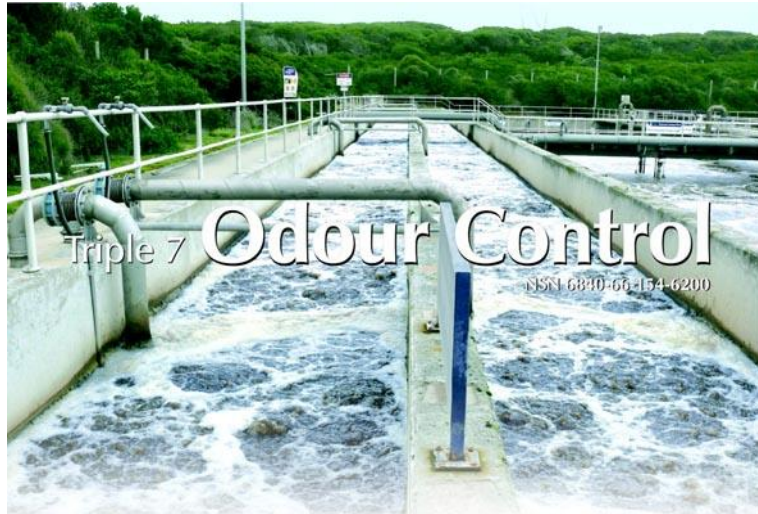
### **Marine Applications**

triple<sup>7</sup> Iodosan may be used for disinfection flushes, being more beneficial than chlorines when organics are present. The product quickly biodegrades, so that flush tanks can usually be entered within four hours of being sanitised.

**NSN 7930-66-153-2102.**

### **Storage**

The product has a shelf life of 2 years when stored in closed containers and away from direct sunlight.



## **triple<sup>7</sup> ODOUR CONTROL**

AAOC-5    5 litres    **NSN 6840 - 66 - 154 - 6200**  
AAOC-20    20 litres    **NSN 6840 - 66 - 159 - 7256**

A non-toxic, organic cleaner & deodoriser that protects your health, your equipment and our environment.

- > **Cleans & Deodorises**
- > **Easier maintenance**
- > **Destroys .... Does not mask odours**
- > **Non-toxic, non-hazardous, non- corrosive**
- > **Improves quality of water for water reuse systems**
- > **Readily biodegradable / organic listed (OMRI)**

**CAGE No. Z02N8**

MRO Panel Member (SON) 404267



## Odour Control Applications

**triple<sup>7</sup> Odour Control** is a non-ionic surfactant based formulation that cleans and destroys odours. This high performance/ low allergy product is readily biodegradable, is suitable for use in organic production (OMRI listed), made from renewable resources and environmentally responsible.

### Benefits

**Cleans & deodorises** - An all-in-one bio-based product that cleans and destroys odours.

**Destroys . . . does not mask odours** - Is virtually odourless and destroys odours at their source. Retards hydrogen sulphide formation.

**Non-corrosive, non-toxic & non-hazardous** - Cleans and destroys odours without damaging cleaning surfaces, seals, rubbers & pipework systems.

**Improves quality of waste water** - No added salt loadings, improves clarification and removes odours. Suitable for use in septic systems and grey water re-use systems.

**Enhances system performance** - Assists in effluent breakdown, lowers oxygen demand, keeps pipework clean, improves oil/water separation and helps in reducing overall sludge volume.

**Healthier & more pleasant working environments** - Reduces toxins and allergens in the workplace. Lowers risk of chemical sensitivities from cleaning products. No over-powering, toxic masking fragrances.

**Keeps grease traps & drains odour free** - An easy-to-use liquid formulation that reduces latent odours and keeps pipework free of fat and grease deposits.

**Does not contain bacteria or bacteria cultures** - Assists resident sewer bacteria already present in sewage systems.

**Assists filtration** - Dislodges particulates from filter media and assists back flushing. Increases usable life of filtration media.

**Cost saving** - Less equipment replacement costs and lower disposal costs.

**Long shelf life** - Remains usable for at least 10 years when stored in congenial storage conditions.

**Environmentally responsible** - Readily biodegradable. Maintains eco-system balance. Reduces soil, air and water pollution.

triple<sup>7</sup> Odour Control is free of petroleum products, glycol ethers, terpenes, strong acids or caustics, phosphates or volatile organic compounds (VOC's).

### Applications:

- \* Water treatment
- \* Refuse
- \* Low water-use toilets
- \* General cleaning
- \* Effluent
- \* Marine tanks

## Odour Control Applications

triple<sup>7</sup> Odour Control is free of ferric salts, magnesium chloride and typical chemical derivatives, enabling odour-related problems to be solved without hazardous additives.

The product does not react with other chemicals (eg: Chlorines ) to create toxic gases and is suitable for gas-scrubbing in hazardous environments.

triple<sup>7</sup> Odour Control reduces odours by attaching to light aromatics, gases and attached flavenoids or constituent odour-causing substances. The product 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 and the product breaks down the solids to provide a food source for the bacteria, consequently improving and enhancing bio-degradability in a shorter time frame.

### Waste water and Sludge treatment

Rather than being a masking agent or band-aid solution, triple<sup>7</sup> 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, consequently improving sewer conditions and effluent flow.

The product can be applied at any stage in the cleaning or waste steam cycle and when used at the point of discharge, 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.

### Sewer Spills

triple<sup>7</sup> Odour Control is used for treatment of sewer spills. After removing solids and excess flooding, the product is applied to the area and atomised into the air.

## Odour Control Applications

Comments from Water Boards who use triple<sup>7</sup> Odour Control in problem wet wells.

*“ triple<sup>7</sup> Odour Control removes fats & greases and controls odours like no other product we have known”*

*“ triple<sup>7</sup> Odour Control does more than what is claimed on the sales brochures, not less, like competitors’ products.”*

### Marine Applications

Add triple<sup>7</sup> Odour Control directly to sewer tanks, septic tanks and toilets. For toilets that constantly have problems, pour 50ml down the toilet twice weekly and ½ to 1 cup to tanks as often as required.

triple<sup>7</sup> Odour Control converts poisonous Hydrogen Sulphide gases to harmless elemental substances, thus greatly reducing the respiratory risks and OH&S issues in closed environments.

The product is effective for floor and general bathroom cleaning, and odour control. Any residue flushed to sewer will further reduce odours, assist sewer flow and maintain pipework.

Odours within air systems can be removed by spraying Odour Control onto filter pads, misted directly into ductwork to remove odour from air flows, along with mould removal.

triple<sup>7</sup> Odour Control is used in sick rooms and laundries as a room freshener and added to washing machine loads when necessary.

The product can also be poured into open containers, diluted 1:1 and left to sit in problem areas for odour control.

triple<sup>7</sup> Odour Control contains no additional fragrances and is not known to cause any allergic reactions.

# Odour Control Applications

## Sewer Mining Systems

### Odour

The normal dose rate is 20ppm of the waste water flow (or 20ml per 1000 litres). Initially, extra product may be required, as early doses may remove old sludge and slime and even enhance the odour problem. Once the system is cleaner, the dose rate can be reduced.

### RO Filters

triple<sup>7</sup> Odour Control can be added to the sewer flows to force the separation of sludge and fats, therefore preventing sludge adhering to the filter.

Add product to the back flush water to dislodge contaminants. The quantity of reverse flush water required may also be improved without damaging RO filters or cleaning surfaces.

### Scale

**1.** Regularly clean toilets with triple<sup>7</sup> Odour Control to limit uric acid from adhering to the pipe work. Add product to a spray bottle or bucket and clean as normal, allowing plenty to flow into the drain. Alternatively, pour triple<sup>7</sup> Odour Control, diluted 1:1, directly down the drain.

The product does not affect the performance of bacterial toilet blocks or drain sleeves that are designed to assist low water use toilets and is free of biocides, which destroy the activity of these systems.

**2.** triple<sup>7</sup> Odour Control can be automatically dosed without fear of overloading the system. If the water mined from sewage is used for toilet flushing, extra product can be added at the treatment plant and only 1 or 2 dosing points are required.



## **triple<sup>7</sup> METAL SHINE**

**Powerful metal cleaner & polishing compound.**

**AAMET-5 5 litres NSN 7930 - 66 - 156 - 0358**

- > Brightens & protects metal surfaces**
- > Non-toxic & non-corrosive**
- > Suitable for use in confined spaces.**

**CAGE No. Z02N8**

MRO Panel Member (SON) 404267

## **Product Application Sheet - METAL CLEANER / POLISHING COMPOUND**

triple<sup>7</sup> Metal Shine is designed to clean, brighten and protect all metal surfaces, replacing toxic mineral oil and xylene cleaning agents.

The product is used on stainless steel and most other metal surfaces including chromium, aluminium, zinc, mild steel, brass, copper and silver. triple<sup>7</sup> Metal Shine restores a brilliant shine and leaves a protective coat to help retard tarnishing without hard rubbing and polishing.

The product is free of abrasives and is non-yellowing even under high operating temperatures. The product does not leave a "gummy" film that could attract more soil particles.

### **Method of Application:**

Clean the surface thoroughly before application, using warm water and a 3% (3:100) solution of triple<sup>7</sup> Colloidal Concentrate. Allow to dry then apply triple<sup>7</sup> Metal Shine directly to the surface with a soft cloth, applying in the direction of the grain.

**Important :** Do not use abrasive scrubbers, sponges, scouring powders, lint-filled cloth, or wipe backwards and forwards, to avoid bubbles or haze. Shake product well before use.



## **triple<sup>7</sup> AIRCRAFT & METAL**

**Powerful organic cleaner & degreaser.**

AAAM-5	5 litres	NSN 6850 - 66 - 159 - 7245
AAAM-20	20 litres	NSN 6850 - 66 - 159 - 7248
AAAM-200	200 litres	NSN 6850 - 66 - 159 - 7249

- > **Non-toxic, non-corrosive, non-flammable**
- > **Retards tarnish**
- > **Easier maintenance**
- > **Lowers disposal costs**
- > **Milspec approved.**

**CAGE No. Z02N8**

MRO Panel Member (SON) 404267

## **Product Application Sheet – AIRCRAFT CLEANING**

triple<sup>7</sup> Aircraft & Metal is a powerful non-toxic, organic cleaner & degreaser which is used for exterior aircraft washing and to clean aluminium or similar soft metals prone to tarnish or oxidation.

triple<sup>7</sup> Aircraft & Metal is water soluble and will not harm metals, acrylics, rubber, vinyl, glass, fabrics, paint or other finishes & surfaces that are compatible with water.

triple<sup>7</sup> Aircraft & Metal meets BOEING D6-17487 Rev. N, DOUGLAS CSD#1, NAVY MIL-PRF-85570C, USAF MIL-PRF-87937C, AMS 1526B. OSHA 29-CFR Ch. XVII 1910.1200 and -40 CFR Ch. 1, Subparts C & D. Complies with EPA 600 / 4-90 / 027 USEPA EMSL protocol for aquatic toxicology. Complies with EPA 601 and 602 protocol for VOC testing. Certified Clean Air Solvent by CA SCAQMD.

The product is non-hazardous, non-flammable and readily biodegradable and the product causes JA or JP fuels and lubricants to repel from the surface and release into a water rinse stream.

While various factors such as solution strength, surface temperature, available agitation and dwell time each contribute to successful cleaning, the exact ratio of each may require repeated trials to determine the ideal mix for specific applications.

### **Method of Application**

triple<sup>7</sup> Aircraft & Metal is applied via wiping, misting, pressure washers or soak-tanks.

### **Cleaning Tips**

When possible, first pre-wet cleaning surfaces with water. Pre-treat heaviest soil with full-strength triple<sup>7</sup> Aircraft & Metal. Allow to soak for 5 minutes before final application and washing.

Best results are obtained with regular use. Where a high gloss finish is desired, thoroughly rinse to avoid streaking by residual product.

### **Pressure Washers / Steam Cleaners**

Use water above 20°C for optimum cleaning performance. triple<sup>7</sup> Aircraft & Metal will not harm equipment, but may release residual chemicals from previous cleaning products into the solution.

Simply unscrew sprayer nozzles and unblock, before continuing.

The product will prevent scale deposition on coils or lines, and will not harm pumps or seals.

### **Carpets - use 1:80 ratio**

Clean with a 1:80 solution. Spotting may be done with a 1:40 solution, then towel dried or vacuumed clean.

### **Carpets and upholstery**

Use complete water extraction only. Mix 1% (1:100) solution and apply after pre-spotting with a 1:1 solution, brushing lightly as needed.

### **Upholstery**

Use a 1:20 solution, adjusting solution strength as required.



## Product Application Sheet – AIRCRAFT CLEANING

### Mould and Mildew

Dilute 1:10 up to 1:5 solution and apply. Let stand for 10 minutes, then wipe off or rinse with water.

### Mirrors and Windows

Clean with a 1:300 solution for a streak-free finish.

### Toilets & reusable water tanks

Clean with a 1:20 solution for toilets, walls and floors.

triple<sup>7</sup> Aircraft & Metal is also ideal for deodorising gray and black water tanks at the rate of 2% of waste effluent volume.

**Call now 1800 777 580**

or

**Visit [www.triple7.com.au/cart/](http://www.triple7.com.au/cart/) and order online today**



**Defence Letter of  
Recognised Supply**

A wholly Australian owned Company



Ecotoxicology – meets the Australian 2012 Oil Spill Control Agents requirements and is overall practically non-toxic (IMO/GESAMP classification). Reference ESA TR1034 May 2013