



envirofluid®
SAFER. CLEANER. GREENER

Worksafe Solutions for Defence



**Aviation/Aerospace
Australia**

**Sustainability Drivers
for Change**

2024 Winner



**Aviation/Aerospace
Australia**

**Excellence in Innovation
SME Award**

2024 Finalist



**Australian Defence
Industry Awards**

Consultancy of the Year

**Defence Innovator of
the Year - SME**

2024 Finalist

Safer, Cleaner, & Greener Work Environments

Envirofluid is the global leading provider of worksafe, environmentally sustainable cleaners, degreasers, descalers, solvents, water treatment products and more. Since 1992, Envirofluid has been helping the Defence Forces to find better, safer and more cost effective ways to approach platform sustainment and general maintenance.



Traditional maintenance chemical products on the market contain one or more of 36 common toxic ingredients. Many of these pose a direct health risk to Defence personnel and managing their use creates unnecessary complexity and cost. Toxic trade waste, caused by chemical use, also creates additional costs and increased reputational risk in the event of environmental release.

This brochure showcases the different procurement options that Envirofluid can offer.



**WORKSAFE & ECO-FRIENDLY
CLEANERS, DEGREASERS &
INDUSTRIAL SOLUTIONS**



**SAFER SUBSTITUTES FOR
TOXIC & DANGEROUS
WORKPLACE SOLVENTS**



**POWERFUL SPECIALIST
PRODUCTS FOR NICHE
APPLICATIONS**



**HEAVY-DUTY HAND
CLEANER FOR DEEP
CLEANING**



**HEAVY-DUTY
TEXTURED
WORKSHOP WIPES**



The Governor of Victoria Export Awards

Regional Exporter of the Year - 2022 Winner

Australian Defence Industry Award

Manufacturer of the Year - 2022 Winner

Aerospace Business of the Year - 2022 Finalist

SME of the Year - 2022 Finalist

Australian Aviation Awards - 2022 Finalist

Aviation Support Business of the Year

Safety Innovator of the Year

Manufacturing/Maintenance Business of the Year

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Purasolve Technology provides health & safety benefits for U.S. Marines in Darwin

The Marine Rotational Force — Darwin (MRF-D) is an initiative that involves the annual rotation of U.S. Marines through Northern Australia since 2012. They undertake a range of activities including training with the Australian Defence Force (ADF).

Following the success at the JLU-N Robertson Barracks, the U.S. Marines are incorporating Purasolve Technology in their set up at the U.S. Marine Base in Darwin.

DEGREASERS

Triple7 All Purpose Degreaser

Ideal for use in heavy industry, automotive and service applications, workshops, and garages.

- Bio-based
- Biodegradable
- Non-toxic
- Non-hazardous
- Non-flammable
- Environmentally friendly

SIZE	PART#	NSN
750mL	AAAPD-075	7930 66 168 6000
5L	AAAPD-5	7930 66 168 6001
20L	AAAPD-20	7930 66 168 6002
200L	AAAPD-200	7930 66 168 6003
1000L	AAAPD-BB	7930 66 168 6004



Recipient of Prestigious Awards



Australian Defence Industry Awards

Manufacturer of the Year
2022 Winner

Aviation/Aerospace Australia
Sustainability Drivers for Change
2024 Winner

The Governor of Victoria Export Awards

Regional Exporter of the Year
2022 Winner

Triple7 Aircraft & Metal Cleaner

A powerful bio-based cleaner and degreaser used for cleaning aircraft exteriors, components and soft metals.

- Aircraft detailing and fuselage cleaning
- Aviation parts cleaning
- Safe for engine cleaning and soft metals
- Safe for soft metals such as aluminium and magnesium
- Removes hydrocarbon soils
- Retards tarnish

SIZE	PART#	NSN
5L	AAAM-5	6850 66 159 7245
20L	AAAM-20	6850 66 159 7248
200L	AAAM-200	6850 66 159 7249



Triple7 MilSpec Aircraft & Metal Cleaner

A high-performance bio-based cleaner and degreaser for aircraft exteriors, components, and soft metals.

- Perfect for fuselage, aviation parts, and engine cleaning
- Safe for aluminium, magnesium, and other soft metals
- Effectively eliminates hydrocarbon soils
- Protects against tarnish and corrosion

SIZE	PART#	NSN
20L	AAMSAM-20	6850 66 168 5891
200L	AAMSAM-200	6850 66 168 5989
1000L	AAMSAM-BB	6850 66 168 5991



Triple7 Heavy Duty

Heavy-duty, water-based, quick-break degreaser and cleaner.

- High-tech, environmentally sustainable
- Heavy-duty industrial degreaser
- Mould & moss remover
- Non toxic, no hazardous chemicals
- Eco-friendly, readily biodegradable
- Non-reactive to surfaces
- Enhances oily water separator efficiency

SIZE	PART#	NSN
500ml	EFS42705	7930 66 164 5240
<i>Empty refillable spray bottle</i>		
5L	AAHD-5	7930 66 159 7251
20L	AAHD-20	7930 66 152 0078
200L	AAHD-200	7930 66 152 0079



Triple7 Heavy Duty Plus

Quick-break degreaser and cleaner with heavy foaming.

- High-tech, environmentally sustainable
- Heavy duty industrial degreaser
- Mould & moss remover
- Non toxic, no hazardous chemicals
- Eco-friendly, readily biodegradable
- Non-reactive to surfaces
- Enhances oily water separator efficiency

SIZE	PART#	NSN
20L	AAHDP-20	7930 66 164 0996



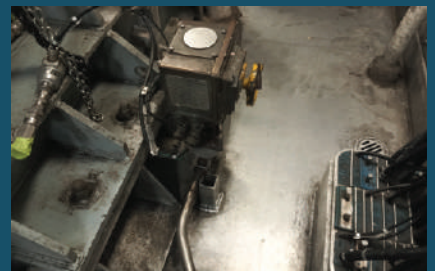
CASE STUDIES

Superior Shipboard Cleaning with Triple7 All Purpose Degreaser

A naval vessel recently transformed its cleaning operations by switching to **Triple7 All Purpose Degreaser**—an eco-friendly alternative to traditional toxic cleaners. The crew had long struggled with harsh chemical products that were not only difficult to use but also posed risks to health, safety, and the environment. With **Triple7 All Purpose Degreaser**, they achieved outstanding cleaning results across multiple surfaces without the need for protective equipment or specialised handling.

The product's non-toxic, non-flammable, and readily biodegradable formulation significantly reduced cleaning time and improved overall safety onboard. Its versatility eliminated the need for multiple cleaning agents, leading to simplified logistics and cost savings. The crew reported improved working conditions and greater efficiency—underscoring the value of adopting safer, high-performance solutions like **Triple7 All Purpose Degreaser**.

This case demonstrates how switching to a greener, smarter cleaning product can deliver real-world benefits in even the most demanding environments.

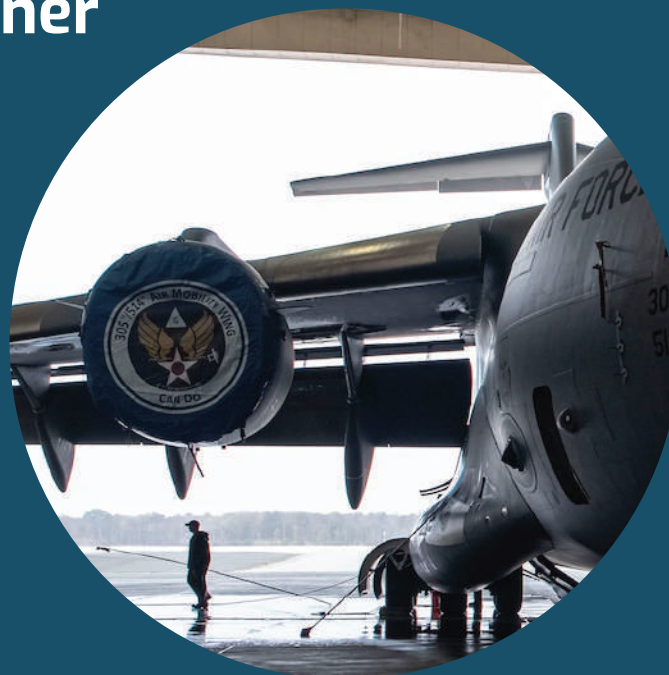


C-17 Aircraft Cleaning Trial with Triple7 Aircraft & Metal Cleaner

During a maintenance task, a Royal Australian Air Force C-17 Globemaster III cleaning team sought a safer, more efficient solution. Traditional solvents were effective but had strong odours, PPE requirements, and health risks in confined spaces.

The team trialed **Triple7 Aircraft & Metal Cleaner**, a non-toxic, biodegradable alternative. Applied to the fuselage and undercarriage, it removed grime and hydraulic fluid without damaging finishes or structural materials.

The results were excellent—faster cleaning, improved safety, and no exposure to harmful chemicals. Crews worked comfortably without respiratory protection. This case highlights **Triple7 Aircraft & Metal** as a safer, sustainable alternative for aircraft maintenance.



SCALE REMOVER



Triple7 EnviroScale

Low corrosion, eco-friendly limescale and calcium remover.

Triple7 EnviroScale is a unique and highly effective product for limescale and calcium removal. The powerful botanical formulation removes scale from virtually any surface, without corroding the surface material.

SIZE	PART#	NSN
5L	AAESCAC-5	6850 66 164 0776
20L	AAESCAC-20	6850 66 152 0080
200L	AAESCAC-200	6850 66 152 0081
1000L	AAESCAC-BB	6850 66 168 5982

- Unique high-performance formulation
- Low corrosion with no harsh acids
- Won't damage surfaces and equipment
- Easy-to-use
- Cost-effective
- Worksafe and non-hazardous
- Dispose down sewers
- No toxic or harmful chemicals
- Suitable for marine and industrial purposes



Triple7 Eco-Scale Plus

Extra strength, high-performance, low corrosion, limescale and calcium remover.

Formulated with worksafety in mind, it offers powerful limescale descaler performance without introducing dangerous acids into the workplace.

SIZE	PART#	NSN
20L	AAESCPL-20	6850 66 164 0804
200L	AAESCPL-200	6850 66 168 5888
1000L	AAESCPL-BB	6850 66 168 6985

- Unique high-performance surfactant formulation
- Won't damage expensive equipment
- Fast acting for reduced maintenance downtime
- No special transport or handling precautions
- No DG rating
- Free of salts and strong acids
- Maximum limescale removal performance with minimum equipment downtime



ActiveEco SX Descaler

Quick-acting, high-performance scale remover.

ActiveEco SX Descaler is based on a unique acid-replacement technology, and although low in pH, it does not contain traditional acids.

SIZE	PART#	NSN
20L	AESXD-20	6850 66 168 5896
200L	AESXD-200	6850 66 168 5970

- Wastewater compatible
- Biodegradable
- Phosphate-free
- Non-dangerous good
- No hydrofluoric, hydrochloric, phosphoric, sulphuric, sulphamic, nitric, citric, oxalic, or glycolic acids

CASE STUDIES

Revolutionising Naval Maintenance at REPTX SALV EX 2024

At REPTX SALV EX 2024, Envirofluid partnered with the U.S. Navy and innovation teams to showcase high-performance, non-toxic products for shipboard maintenance. Aboard the USS Tarawa, Triple7 All Purpose Degreaser and Triple7 EnviroScale handled critical cleaning and descaling tasks safely and effectively.

Triple7 All Purpose Degreaser provided powerful degreasing without traditional solvent risks, while Triple7 EnviroScale removed scale deposits without corrosion or safety hazards. Both products are free from harsh chemicals, require no special PPE, and are fully biodegradable—ideal for enclosed, operational environments.

These trials proved eco-friendly alternatives can exceed Defence expectations, enhancing readiness and safety. Envirofluid's success marks a major step in sustainable naval maintenance, driven by sovereign Australian innovation.



Streamlining Offshore Sewage System Maintenance with Triple7 EnviroScale



An offshore platform operating in Australian waters faced severe scale build-up in its Marine Sanitation Device (MSD) system, threatening performance and causing blockages in sewage lines. Traditional acid-based descalers had proven too corrosive, posing risks to pipework, personnel, and surrounding marine environments.

The facility trialed **Envirofluid's Triple7 EnviroScale**—a non-toxic, biodegradable descaler known for its powerful

scale-removal capabilities without the harmful effects of traditional acids. The product was dosed directly into the system and left to circulate, allowing the crew to continue normal operations during treatment. No shutdown was required.

Within 24 hours, the descaling process successfully restored flow to the blocked lines without damaging equipment or exposing personnel to hazardous fumes. Because Triple7 EnviroScale is non-corrosive and safe for use on a wide range of materials, it also reduced the risk of long-term degradation to infrastructure.

This case proves that offshore maintenance doesn't need to come at the cost of safety or sustainability. Triple7 EnviroScale minimised downtime in one of the world's most challenging operational settings.

PURASOLVE PRESSURE SPRAYER



The Purasolve Pressure Sprayer is an easy-to-use chemical sprayer designed for use with the Purasolve Safety Solvent range.

The Purasolve Pressure Sprayer has a 1500ml liquid capacity. It can dispense up to a maximum of 44psi max pressure and has an inbuilt safety pressure valve.

- Fully recyclable
- Non-flammable and non-explosive
- No bacteria or enzymes
- Low odour
- Improves worker health & safety

SIZE	PART#	NSN
1.5L	ESPPS-1	4910 66 168 5969

Trigger

Applications include:

- Brake cleaning
- Electronic circuit boards
- General solvent spray

Key Features:

- Industrial-grade materials
- Durable
- Efficient chemical application
- Adjustable nozzle
- Ergonomic design
- Resistant to a wide range of chemicals



Achieve efficient brake cleaning with the Purasolve Pressure Sprayer. Its adjustable nozzle allows for precise chemical application. Simply fill the sprayer, pressurise it, adjust the nozzle, and spray the brakes.



Purasolve Parts Cleaner & Purasolve Parts Cleaner SK



Powerful, fully recyclable, low-vapour, benzene-free, high-purity hydrocarbon degreasing solvent for use in parts washers.

PRODUCT NAME	PART#	PART#
Purasolve Parts Cleaner 20L	ESPRC-20	6850-66-163-6889
Purasolve Parts Cleaner 200L	ESPRC-200	6850-66-163-7361
Purasolve Parts Cleaner SK 20L	ESPSK-20	6850-66-163-6888
Purasolve Parts Cleaner SK 200L	ESPSK-200	6850-66-163-6887

GRITMITTS BAR & LIQUID HAND CLEANER

GritMitts is a heavy-duty hand cleaner that combines the cleansing power of pumice, a light volcanic rock, with the deep cleaning strength of natural citrus oils.

GritMitts is available as a soap bar and a liquid hand cleaner.



- Made in Australia
- Contains moisturisers to keep hands soft
- Will not irritate skin
- Deep cleans without harsh chemicals

DETAIL	PART#	NSN
GritMitts Soap Bar 100g	AAGMBR-1	8520 66 016 0262
GritMitts Liquid 500ml	AAGTMT-05	8520 66 164 0991
GritMitts Liquid 5L	AAGTMT-5	8520 66 164 0992
GritMitts Liquid 20L	AAGTMT-20	8520 66 164 0993

WIPE-ITTS HAND AND WORKSHOP WIPES



Wipe-Itts Workshop Wipes are heavy-duty textured wipes that effectively remove grease and grime.

Wipe-Itts Disinfectant Wipes are ready-to-use wipes for disinfecting a wide variety of hard surfaces and common touch point areas.

Both variants are plastic-free and biodegradable.

DETAIL	PART#	NSN
Wipe-Itts Workshop Wipes <i>Canister of 80 wipes</i>	AAWPTWW	7920 66 168 5977

SANITISERS & DISINFECTANTS

Triple7 Mega Clean

High performance bio-based cleaning solution that leaves surfaces clean and odour-free without using toxic or dangerous chemicals

- High-tech, general purpose cleaner and deodoriser
- Derived from renewable resources
- Multi-purpose – reduces inventory requirement
- Destroys odours at their source
- No toxic or hazardous ingredients
- No colours or fragrances
- Readily biodegradable
- Increases sustainability
- No storage requirements



SIZE & DETAILS	PART#	NSN
Triple7 Mega Clean (Multipurpose Cleaner) 750ml	AAMGCL-075	7930 66 164 0798
Triple7 Mega Clean Screen-Printed Bottle 500ml with Spray Nozzle (refillable)	EFS42701	7930 66 164 5237

Triple7 Iodosan

Broad-spectrum, detergent disinfectant effective against a wide range of bacteria & organisms

- High-performance, iodine based sanitiser
- Broad spectrum microbiocide
- Quick-kill, low-residual
- Natural, effective cleaning
- Disinfects all hard surfaces
- Rinse-free @ 1:700 (approx. 15ml to 10L)
- 99.9% kill rate in 2 minutes

SIZE	PART#	NSN
5L	AAIOD-5	7930 66 166 0988
20L	AAIOD-20	7930 66 153 2102



ActiveEco Disinfect

Anti-bacterial all-purpose detergent ideal for the cleaning and sanitising of bacteria-sensitive areas

Utilises a combination of bacteria-destroying germicides and a pleasant perfume to effectively deodorise and freshen a wide variety of areas

SIZE	PART#	NSN
500ml	AAEDIF-05	6840 66 164 0979
5L	AEDIF-5	6840 66 164 0978
15L	AEDIF-15	6840 66 164 0977



Triple7 Glass Shine

High-performance, bio-based glass and mirror cleaning solution that leaves surfaces clean and polished without using toxic chemicals

- High-tech, no streak glass and window cleaner
- Readily biodegradable
- Super concentrated
- Non-reactive to surfaces
- Safe to use, store and dispose of
- Increases sustainability
- Derived from renewable resources

SIZE	PART#	NSN
500ml	EFS42700	7930 66 164 5235
5L	AAGS-5	7930 66 164 0809



ActiveEco Complete

High performance multi-task formulation designed for removing an extensive range of water- and oil-based stains from carpets and upholstery

Developed with concentrated attention to fibre protection and has a unique anti-resoiling encapsulation technology built into it for a longer-lasting clean

Wool and 5th generation nylon friendly

SIZE	PART#	NSN
500ml	AAECCOS-05	7930 66 164 1003



Inventory Reduction via TM 181 LHD Cleaning Chemical Substitution Directive

Product Substitution

- 80% inventory reduction
- Over 100 products were replaced by only 19 Envirofluid products
- All dangerous goods eliminated
- Previously failing systems functioned correctly again
- Zero-cost exercise

UNCLASSIFIED

 NAVAL ENGINEERING 

Technical Directive

Serial Number¹: 17-078

¹ Serial numbers will be issued by NMSwAA.

² Whilst anyone can identify the need, only Authorised Engineering Organisations may sponsor TM 181s.

³ Expiry date is to be no more than 12 months from the Date of Issue.

⁴ All TM 181s are to contain a point of contact within the originating AEO.

⁵ All TM 181s are to be endorsed by an Engineering Authority of the appropriate level determined by the category of technical risk associated with the TM 181 and only after having assessed that risk. See ABR 6492 Volume 2 Section 5 Chapter 2 Annexes A&B for risk and engineering authority levels. Endorsement indicates that technical risk has been assessed and that the endorser is satisfied that any risk is being appropriately managed.

⁶ TM 181s may only be released by an Executive Authority within the originating AEO. Releasing officers are to note that they are accepting, on behalf of the Commonwealth, the technical risk associated with the TM 181.

Originating AEO: ² LHDSPO	Date of Issue: 31 October 2017	EIC / CMC: ZZZZ-SK	Expiry Date: ³ 31 October 2018
Subject: LHD CLEANING CHEMICAL SUBSTITUTION DIRECTIVE			
Applicability: Canberra Class LHD (HMAS Canberra, HMAS Adelaide)			
References: A. Envirofluid Product List B. Ship's System Summary C. Chemicals Application Summary D. TM181 16-100 Direction on enzyme based cleaning and dosing of vacuum system pipelines			
INFORMATION			

Aboard Australia’s Landing Helicopter Dock (LHD) vessels, maintenance crews were managing over 40 separate cleaning chemicals—many of which were hazardous, redundant, or highly specialised. This created safety risks, storage limitations, and logistical inefficiencies across the fleet.

To simplify and modernise maintenance, the **TM 181 LHD Cleaning Chemical Substitution Directive** was issued, aiming to reduce the volume and risk profile of cleaning products onboard. Working closely with Navy stakeholders, **Envirofluid** provided high-performance, multi-application products that could replace a wide range of traditional cleaners and degreasers.

By substituting harmful and single-purpose chemicals with versatile, non-toxic alternatives such as **Triple7 All Purpose Degreaser** and **Triple7 Eco-Scale**, the LHD teams achieved a significant reduction in chemical inventory—cutting the list from over 100 products down to just 19. This not only freed up storage space but also reduced procurement complexity, safety risks, and crew training requirements.

This directive illustrates how chemical consolidation—driven by safer, smarter products—can enhance operational efficiency, reduce costs, and improve health and safety outcomes across large-scale Defence platforms.

Triple7 Dust Suppression Plus

Triple7 Dust Suppression Plus is a bio-based chemical developed as a cost-effective, plant-based dust suppressant agent.

- Long-term dust control
- Effective in all weather conditions
- Non-toxic & non-flammable
- Neutral pH
- Non-carcinogenic
- Remains bonded with heavy traffic
- Will not affect tyre traction
- Biodegradable
- Safe for your workers and our environment



SIZE	PART#	NSN
20L	AADSP-20	6850 66 168 5908
200L	AADSP-200	6850 66 168 5978
1000L	AADSP-BB	6850 66 168 5979



Dust Suppression: A Tactical Necessity for Defence Operations

Across forward operating bases, unsealed MSRs (Main Supply Routes), and training ranges, dust presents a persistent threat to visibility, health, and equipment integrity. Uncontrolled dust can degrade asset performance, impair situational awareness, and increase exposure to respirable crystalline silica—posing risks to personnel safety and operational readiness. An effective dust suppression capability is essential to maintaining mission effectiveness and compliance with Defence health and safety protocols.

Effortless Deployment: Compatible with Standard Water Dispersion Assets

Triple7 Dust Suppression Plus is field-deployable and seamlessly integrates with standard Defence water carts and tanker-mounted spray systems. It is dosed directly into the water supply, where it binds airborne particulates on contact—significantly reducing dust lift-off and maintaining ground stability. This logistics-friendly, non-toxic solution supports continuous operations while reducing water resupply frequency, protecting critical equipment, and enhancing force protection measures in austere environments.

Mission-Ready Dust Control with Triple7 Dust Suppression Plus



Unsealed roads, helipads, training zones—Defence operations demand reliable dust control that performs under pressure. Triple7 Dust Suppression Plus delivers long-lasting suppression with minimal environmental impact, making it ideal for military use.

Unlike traditional water-based methods that require constant reapplication, this non-toxic, biodegradable solution binds fine dust particles on contact—reducing airborne risks like silica exposure, improving visibility, and safeguarding personnel and equipment. It significantly cuts down water usage and labour requirements, supports Defence sustainability objectives, and is available with NATO Stock Numbers (NSNs) for streamlined procurement through approved supply chains.

From forward-operating bases to domestic training sites, **Triple7 Dust Suppression Plus** enhances safety and compliance—without compromise.

ODOUR CONTROL

Triple7 Odour Control

Non-toxic, bio-based surfactant cleaner & deodoriser that protects your health, your equipment and our environment

- High-tech, super concentrated cleaner & odour neutraliser
- Destroys odours
- Multi-purpose – reduces inventory requirements
- Derived from renewable resources
- No toxic or hazardous ingredients
- Improves quality of water for reuse systems
- Enables easier maintenance
- Retards hydrogen sulphide
- Does not harm sewer bacteria
- Assists septic and waterless systems
- Breaks down solids and removes pipework deposits



SIZE	PART#	NSN
500ml	EFS42704	7930 66 164 5239
<i>Empty refillable spray bottle</i>		
5L	AAOC-5	6840 66 154 6200
20L	AAOC-20	6840 66 159 7256

Proven Reduction of Hazardous Gases with Triple7 Odour Control

During maintenance of the Foxtrot V1 and V2 sewage tanks, entry was initially prohibited due to dangerously high concentrations of hydrogen sulphide (H₂S) and carbon monoxide (CO)—posing significant risks to personnel. After three days of failed attempts to reduce gas levels, a simple dose of Triple7 Odour Control (5L per tank) was applied.

Within 48 hours, both tanks met safe entry thresholds, with gas levels significantly reduced—allowing clearance for confined space entry without delays or additional remediation. Witnessed by Thales and Royal Australian Navy personnel, the result demonstrated the product's rapid effectiveness in neutralising toxic odours and hazardous gases.

Triple7 Odour Control offers a low-risk, maintenance-friendly solution for confined spaces across Defence maritime and base infrastructure—enhancing safety, reducing downtime, and supporting compliance with hazardous atmospheric exposure limits.

Attached are entry permits for the Foxtrot V1 and V2 sewage tanks. As you can see the tanks were tested in May 2008 and were not fit for entry due to excessive H₂S and CO readings. The tanks had been tested for three days prior to this with a similar result. After a discussion it was decided that we should put 5 litres of TRIPLE 7 Odour Control into each tank and leave it for 48 hours before we test them again and as you can see from the test results on the following Monday, the tanks were fit for entry.

Paul Lemin (Thales Permit Controller) and CPOMT Fletcher (RAN) witnessed the process. It is my belief that if this system had used TRIPLE 7 Odour Control prior to docking or continuously as part of a program, we would not have had the delays or the risk involved in cleaning these tanks.

Please feel free to contact me if you need any more information regarding this project.

Regards,

Peter Phelps
Manager

CONFINED SPACE PERMIT No. 0008
Date: 2-5-08 Start Time: 0900 Finish Time: 1700
Issued Name: PETER PHELPS Location: FOXTROT V1
Checked By: PETER PHELPS

Check ☒ only if answer is yes
1. ☒ Are there any items carrying material to or from compartment (blanked off or removed)?
2. ☒ Are any equipment power sources tagged in the off position?
3. ☒ Mechanical ☒ Electrical
4. ☒ Respiration Protection Required? (if yes, state type)
5. ☒ Gas Level Test Details:
Combustible (FL%):
Hydrogen Sulphide (H₂S PPM):
Carbon Monoxide (CO PPM):
Oxygen (O₂%):
Gas Monitor: MULTIMO
Serial No: 2004/44374
Daily Test Time: 0700
Operator Name (Print): P. PHELPS
Signature: [Signature]
6. Protective Equipment Required:
☒ Respiration Protection
☒ Safety Harness
7. Chemicals to be used in confined space (Gases to be completed as no other chemicals than those listed are permitted):
NO ENTRY
8. Authorisation:
Issued Representative: [Signature]
Permit Controller: [Signature]
Supervisor: [Signature]

CONFINED SPACE PERMIT No. 0009
Date: 5-5-08 Start Time: 0800 Finish Time: 1800
Issued Name: PETER PHELPS Location: FOXTROT V2
Checked By: PETER PHELPS

Check ☒ only if answer is yes
1. ☒ Are there any items carrying material to or from compartment (blanked off or removed)?
2. ☒ Are any equipment power sources tagged in the off position?
3. ☒ Mechanical ☒ Electrical
4. ☒ Respiration Protection Required? (if yes, state type)
5. ☒ Gas Level Test Details:
Combustible (FL%):
Hydrogen Sulphide (H₂S PPM):
Carbon Monoxide (CO PPM):
Oxygen (O₂%):
Gas Monitor: MULTIMO
Serial No: 2004/44374
Daily Test Time: 0700
Operator Name (Print): P. PHELPS
Signature: [Signature]
6. Protective Equipment Required:
☒ Respiration Protection
☒ Safety Harness
7. Chemicals to be used in confined space (Gases to be completed as no other chemicals than those listed are permitted):
ENTRY TO SMALL NO ENTRY
8. Authorisation:
Issued Representative: [Signature]
Permit Controller: [Signature]
Supervisor: [Signature]

PARTS CLEANING

Purasolve Surface Prep

A safer alternative for preparing surfaces for painting and welding to remove contaminants

It has a low flash point and low vapour pressure compared to Acetone, MEK, and other solvents

- Cleans surfaces for painting & welding
- Non-explosive
- Slow evaporating
- Improved user safety & comfort

SIZE	PART#	NSN
20L	ESSRP-20	6850 66 159 7259



Purasolve Brake Cleaner

An ultra-safe, residue-free cleaning solvent for brakes and other technical applications developed to replace highly toxic & explosive brake cleaners

- Residue-free finish
- Lasts 10-20 times longer than conventional brake cleaners
- Does not contain chlorinated or halogenated solvents
- Improved user safety & comfort

SIZE	PART#	NSN
400ml Aerosol	ESBKC-400	6850 66 164 5234
5L	ESBKC-5	6850 66 164 0797
20L	ESBKC-20	6850 66 163 6890



Purasolve Parts Cleaner SK

A powerful, fully-recyclable, low-vapour, benzene-free, high-purity hydrocarbon degreasing solvent for use in parts washers

It has been specially designed for the easy removal of heavy-bearing grease

- High-tech parts washing solution
- Developed to replace dangerous solvents for parts cleaning
- Non-flammable & non-explosive
- Extreme grease-removing action
- Reduced PPE requirement
- Improves worker health & safety

SIZE	PART#	NSN
20L	ESPSK-20	6850 66 163 6888
200L	ESPSK-200	6850 66 163 6887



Purasolve Parts Cleaner

An ultra-safe, high-performance product that reduces risks to your workers & the environment

With a high flash point and low VOCs, it is the ideal substitute for dangerous industrial solvents

- Fully-recyclable
- Lasts for a minimum of 18 months when used with Purasolve Filters
- No bacteria or enzymes
- Low odour
- Improves worker health & safety
- Reduced PPE requirement

SIZE	PART#	NSN
20L	ESPRC-20	6850 66 163 6889
200L	ESPRC-200	6850 66 163 7361

MIL-PRF-680 Type II Codified



Purasolve Weapons Cleaner

A powerful, fully-recyclable weapon and gun cleaning solution

A low-vapour, benzene-free, high-purity hydrocarbon degreasing solvent for use in parts washers and for metal cleaning

- Fully-recyclable
- Non-flammable and non-explosive
- No bacteria or enzymes
- Low odour
- Improves worker health & safety

SIZE	PART#	NSN
20L	ESWPC-20	6850 66 163 7352
200L	ESWPC-200	6850 66 168 5894

MIL-PRF-680 Type II Codified



Purasolve Precision Cleaner

A non-explosive, low-hazard electrical contact cleaner and residue-free safety solvent for precision electrical contact cleaning applications

- Developed to replace explosive solvents
- High-tech electrical contact safety solvent
- Slow evaporating for extended cleaning time
- High dielectric strength and residue-free finish

SIZE	PART#	NSN
400ml Aerosol	ESPCC-400	6850 66 164 5233
5L	ESPCC-5	6850 66 164 0999



PURASOLVE PS6 PARTS WASHER KIT



The Purasolve PS6 Parts Washer Kit comes complete with the Purasolve PS6 Parts Washer, Purasolve Filter System, and 3 x Purasolve Parts Cleaner SK 20L drums.

- Three methods of cleaning - flexible hose, hand-held brush and parts soaking
- Integral recycling micro-filtration extends solvent life
- Utilises fully-recyclable safety solvents for ultimate worker safety
- Significant reductions in solvent usage and disposal cost

Worksafe, Cost-Effective Parts Washer Cleaning System



Purasolve Parts Cleaner & Purasolve Parts Cleaner SK

A powerful, fully-recyclable, heavy-duty parts washing solution

Purasolve Filter Kit

Multi-stage filtration unit designed especially for recycling Purasolve solvents for reuse



PRODUCT NAME	PART#	NSN
Purasolve PS6 Parts Washer	PS6PW	4940 66 164 5877
Purasolve PS6 Parts Washer Kit	PS6PWKIT	4940 66 164 5874
Purasolve Parts Cleaner 20L	ESPRC-20	6850 66 163 6889
Purasolve Parts Cleaner SK 20L	ESPSK-20	6850 66 163 6888
Purasolve Retrofit Filter Kit	PSFK	4330 66 163 7112
Purasolve Primary Filter	PSPF	4330 66 163 6949
Purasolve Secondary Filter	PSSF	4330 66 163 6950

CASE STUDIES

Improved Parts Cleaning, Reduced Wastage and Increased Safety at Defence Workshops

Envirofluid were commissioned by Defence to provide a parts washing solution that would provide superior cleaning performance, whilst improving work safety and reducing the site's environmental footprint. With the help of Purasolve PS6 Kit, Robertson Barracks Service Centres were able to eliminate waste streams from their parts washing stations from 35,200 litres down to zero over 5 years.

The lower maintenance parts washers and recyclable solvent helped to improve site security through reduced on-site attendance requirements. On top of this, the new parts washing solution provided the Defence Force with cost savings, improved cleaning results and better efficiencies while mitigating major health risks.

By changing over to Purasolve parts washers and solvents, Robertson Barracks have improved the health and work conditions of their personnel.



Dangers of Using Kerosene

It is common to find kerosene being used as a parts cleaner in workshops due to its low cost; however, it is not as effective when it comes to removing heavy-bearing grease. Aside from its ineffectiveness, there are many other reasons why you shouldn't use kerosene in your parts washer:

- It is flammable
- It has a low flash point
- Its vapour mixed with air is explosive
- It is toxic when inhaled
- It contains numerous compounds, such as n-hexane, naphthalene, and benzene, that can potentially pose health risks
- Chronic exposure commonly results in dermatitis
- It is irritating to the eyes and skin
- Inhalation can cause irritation to the nose and throat and cause coughing and wheezing
- Prolonged or repeated exposure can cause burns and itching of the skin with rash, redness and blisters
- It can irritate the lungs, and with repeated exposure, may cause bronchitis to develop with coughing, phlegm and/or shortness of breath
- Chronic and acute exposure can cause irritability, restlessness, drowsiness, convulsions, coma, and death

Another common complaint from those who use kerosene in parts washers is that the smell is absorbed into the skin and clothing, even with the use of PPE, and persists when they get home to their families.

Purasolve Rotary Parts Washers



PSR1100PW
1100mm Basket

			PSR1100PW NSN: 940 66 168 0797		
Model	PSR550PW	PSR900PW		PSR1350PW	PSR1600PW
Machine Dimensions	650 x 650 x 800mm	1000 x 1000 x 1200mm	1250 x 1250 x 1650mm	1500 x 1500 x 1600mm	1750 x 1750 x 1900mm
Basket Size Diameter	550mm	900mm	1100mm	1350mm	1600mm
Loading Height	350mm	450mm	600mm	700mm	800mm
Basket Capacity	150kg	500kg	750kg	1000kg	2000kg
Number of Pumps & Power (Number x kW)	1 x 3	1 x 2	1 x 2.5	1 x 2.5	1 x 2.5
Heater Power	5 kW	7.5 kW	2 x 7.5 kW	2 x 7.5 kW	2 x 7.5 kW
Electricity (V/Phase)	240V	415v / 3	415v / 3	415v / 3	415v / 3
Timer	0 - 30 minutes	0 - 30 minutes	0 - 30 minutes	0-30 minutes	0-30 minutes
Thermostat	0 - 90	0 - 90	0 - 90	0 - 90	0 - 90
Tank Capacity	60L	150L	200L	240L	275L
Loading Trolley	NA	-	Included	Included	Included
Oil Scraper	-	Standard	Standard	Standard	Standard
Liquid Level Control & Auto Feed System	-	Optional	Optional	Optional	Optional

PURASOLVE ROTARY PARTS WASHERS

Purasolve Rotary Parts Washers are designed with ease of use, power savings, time savings and overall cost-effectiveness in mind.

They are designed to be used in conjunction with Purasolve Rotary Detergent. Wastewater can be discharged through normal waste catchment or oil-water separator.

- Easier maintenance
- Reduces disposal costs
- Enables new applications
- Protects health
- Enhances workplace safety
- Protects our environment



PURASOLVE HIGH PRESSURE PARTS WASHER



Purasolve High Pressure Parts Washers are designed to clean small, complex components with pressurised hot water.

- Ergonomic working height
- Flexible neoprene gloves
- Illuminated wash area
- Adjustable spray nozzle
- Safe, convenient air-actuated on/off foot pedal
- Fast heat-up
- Fully-enclosed cleaning process
- High-pressure jets of cleaning fluid

DETAILS

Purasolve HP200 High-Pressure Parts Washer

PART#

PSHP200

NSN

4940 66 168 5998



Power-Fill Automated Filling Station for EverSafe Atomisers



Can be used to automatically fill Purasolve EverSafe dispensers without the need to disassemble the sprayer.

Delivers a standardised amount of chemical to the sprayer with each refill along with the required amount of compressed air.

Fitted with special chemical-resistant seals to handle almost any product.

Can be fitted with a card swipe or similar function for fill monitoring system.

Purasolve EverSafe Atomiser

Refillable spray units

A safer and smarter alternative to traditional aerosols

- Cost-effective alternative to aerosols
- Save money with bulk chemicals
- Easy-to-use sprayers
- Two convenient sizes available
- Pressurised with air
- No harmful propellants
- Quick and easy to refill atomisers
- Reduce empty aerosol can wastage



SIZE & DETAILS	PART#	NSN
Purasolve Power-Fill Automated Filling Station for EverSafe Atomisers	SU42501B	4730 66 164 5243
Purasolve EverSafe 750mL Aluminum Sprayer with Adjustable Nozzle	SU42101B	6530 66 163 7114

GALLEY/MESS HALL



Triple7 Pristine Clean

Powerful organic bathroom cleaner

SIZE	PART#	NSN
500ml	EFS42702	7930 66 164 5238
<i>Empty refillable spray bottle</i>		
5L	AAPRCL-5	7930 66 164 0802



ActiveEco ActiveBlitz

Ultra-concentrated tile, grout, kitchen canopy, oven, grill, and rangehood cleaner

SIZE	PART#	NSN
5L	AEABZ-5	7930 66 164 0985



Triple7 Hospitality

Powerful food-safe surface, equipment, and floor cleaner

SIZE	PART#	NSN
500ml	EFS42706	7930 66 164 5241
<i>Empty refillable spray bottle</i>		
5L	AAHOS-5	7930 66 159 7252

LAUNDRY



Triple7 Safewash Liquid & Triple7 Safewash Liquid Plus

High-performance, concentrated laundry wash

SIZE	PART#	NSN
5L	AASWL-5	7930 66 159 7257
20L	AASWLP-20	7930 66 164 0794



Triple7 Safewash Powder

Bio-based laundry wash, free of all toxic and hazardous additives

SIZE	PART#	NSN
2KG	AASWP-2	7930 66 159 7258
20KG	AASWP-20	7930 66 164 0807



Triple7 Safestain

Non-toxic and non-flammable laundry pre-soak and stain remover

SIZE	PART#	NSN
5L	AASAFST-5	6850 66 164 0997



ActiveEco Krystal

Powerful destainer against a wide variety of common stains including bio and organic substances

SIZE	PART#	NSN
4,5kg	AEKRL-4	7930 66 164 1002



ActiveEco Premium Fabric Softener

Biodegradable, non-toxic fabric softener

SIZE	PART#	NSN
5L	AEPFS-5	7930 66 164 1001



ActiveEco PreWash

Super strength, non-caustic, low-odour prewash to remove oils prior to main wash

SIZE	PART#	NSN
5L	AEPRW-5	7930 66 164 1000

HAND DISHWASHING LIQUID



Triple7 Saucepan Shine

High-performance, plant-based washing liquid for all hand-washed dishes

Lathers well and rinses clear for a spotless result. It is readily biodegradable and does not contain any hazardous, irritating or toxic ingredients.

SIZE	PART#	NSN
500ml <i>Empty refillable pump bottle</i>	EFS42703	7930 66 164 5242
5L	AASAUS-5	7930 66 164 0810
20L	AASAUS-20	7930 66 164 0801

METAL CLEANERS



Triple7 Metal Shine

High-performance, bio-based cleaner and polisher for all metal surfaces

Non-toxic and non-corrosive solution that is used to clean and brighten metal surfaces. This solution does not oxidise the metal surface. The product inhibits rust and corrosion and does not leave a gummy film.

SIZE	PART#	NSN
5L	AAMETS-5	7930 66 156 0358



Triple7 Super Shine

High-performance, bio-based cleaner for metal surfaces, ovens and rangehoods

100% organic and derived from readily-renewable resources. The product contains no toxic chemicals and is phosphate-, caustic- and ammonia-free.

SIZE	PART#	NSN
5L	AASUPERS-5	7930 66 164 0812
20L	AASUPERS-20	7930 66 164 0983



ActiveEco ActiRevenge

Heavy-duty cleaner that chemically brightens aluminium and stainless steel

Removes tea staining, welding burns, oxidising, rust stains, mineral salt deposits, diesel fumes, grease & corrosion common to stainless steel and other surfaces exposed to the elements.

SIZE	PART#	NSN
15L	AEARV-15	6850 66 163 6885

WATER TREATMENT & OIL SPILL CLEANUP



Triple7 AquaSmart

Chlorine-free water treatment that is safe and effective

SIZE	PART#	NSN
500ml	AAAQS-05	6840 66 164 0987



Triple7 EnviroClear

Powerful solution that cleans effluent systems and destroys odours

SIZE	PART#	NSN
5L	AAECL-5	7930 66 159 7250



Triple7 BioConcentrate

Oil spill cleanup product and marine degreaser for marine environments

SIZE	PART#	NSN
20L	AABCN-20	6850 66 164 0782

SUPPLEMENTARY PRODUCTS



Triple7 Fog-Pro

High-performance, heavy artificial fogging agent for indoor battle training

SIZE	PART#	NSN
20L	AAFGP-20	9150 66 163 7035



AntiFoam

Non-ionic aqueous emulsion used to suppress or control the formation of foam

SIZE	PART#	NSN
5L	AAAF-5	6850 66 155 7312
5L	AEAFM-5	6850 66 164 0998



FloodSax

Effective lightweight alternative to regular sandbags that can be used for cleanup applications

SIZE	PART#	NSN
carton 20 bags	EDS-FS-020	7920 99 213 4663



BlastSax

Unique blast migration system that is rapidly deployed and extremely effective

SIZE	PART#	NSN
carton 18 bags	EDS-BS-08-001	4240 99 991 3183

Proven in Defence: Envirofluid's NSN-Coded Products



When it comes to Defence operations, every product used—from cleaning solutions to maintenance solvents—must be reliable, compliant, and accessible. NATO Stock Numbers (NSNs) provide a globally standardised identification system that ensures products can be quickly sourced, approved, and integrated into supply chains without ambiguity.

At Envirofluid, we don't just supply chemical products—we provide Defence-ready solutions that have earned their NSNs through rigorous assessment, proven performance, and real-world operational value. An NSN isn't just a code—it's a Defence endorsement. It means a product has been vetted, catalogued, and trusted for critical operations across land, air, sea, and logistics.

Envirofluid's range of NSN-coded products has already made a measurable impact within the Australian Defence Force (ADF) and allied forces. From improving air quality in aircraft hangars to reducing solvent waste in workshops, our products are transforming maintenance and sustainment operations across the board.

NATO SUPPORTING OUR CAUSE

“

*your approach is an effective one,
and [the] same pattern could be
undertaken in 60 plus countries.*

”

Codification Support Section Chief
NATO Support and Procurement Agency

FLUSHING RIG SYSTEMS



Envirofluid can design and fabricate custom flushing and filtration rigs to suit your unique applications.

Enquire at sales@envirofluid.com.

WEAPONS CLEANING SYSTEMS

Envirofluid's weapons cleaning solutions and systems are safer, cleaner, and greener than most conventional cleaning systems on the market.

Ask us how!

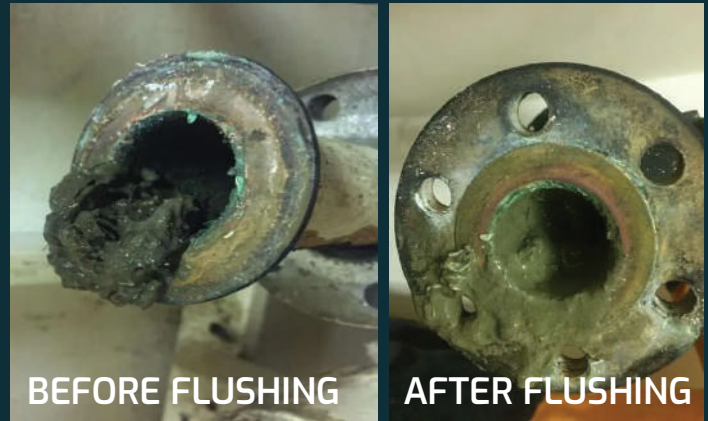
CASE STUDIES

Eliminating Marine Biofouling from Heat Exchangers

A naval vessel was experiencing reduced efficiency in its heat exchangers due to severe marine biofouling—barnacle shells, organic buildup, and scale were clogging internal piping and threatening system performance. Traditional cleaning methods were time-consuming, required equipment disassembly, and posed risks to personnel and the environment.

To address this, the crew applied **Triple7 EnviroScale**, a non-toxic, biodegradable descaler designed to target both organic and inorganic fouling without damaging equipment. The product was circulated through the system, safely dissolving buildup without corroding internal surfaces or requiring hazardous materials handling.

After treatment, the heat exchangers returned to full operational capacity, with minimal downtime and no adverse environmental impact. The case highlights how **Triple7 EnviroScale** delivers a safer, faster, and more cost-effective solution to marine maintenance challenges—particularly in hard-to-clean, in-situ systems.



Resolving Radar Cooling System Issues aboard HMAS Hobart

HMAS Hobart encountered a recurring issue in its radar cooling system caused by limescale buildup, which restricted flow and increased the risk of overheating in vital electronic components. Conventional descaling chemicals posed corrosion risks and required extensive safety measures that delayed maintenance.

By implementing **Triple7 EnviroScale**, the maintenance crew was able to remove the limescale safely, with no disassembly or PPE requirements. The product's low-corrosion formulation made it ideal for delicate onboard systems and safe for personnel to handle, even in confined spaces.

The result was a restored cooling system operating at full efficiency, reduced risk of equipment failure, and a safer maintenance process overall. This case proved the suitability of **Triple7 EnviroScale** for sensitive naval applications, particularly where traditional descalers are too hazardous or harsh.



CASE STUDIES



Reducing Hazards and Expense in Heat Exchanger Limescale Removal – ANZAC-Class

The Situation

The Australian Defence Force (ADF) faced severe corrosion issues in its pipework systems, including heat exchangers and fire mains, due to the use of acidic descalers.

Routine flushing was needed to remove limescale, and heat exchangers required external cleaning, complicating maintenance. The previous use of hydrochloric acid-based descaler caused corrosion, leading to costly repairs, hazardous handling conditions, and high disposal costs for toxic waste.

The Challenge

How could the ADF maintain critical assets while minimising labour, reducing damage, and ensuring compliance with safety and environmental regulations?

The Hazards of Hydrochloric Acid

Hydrochloric acid, a Class 8 Dangerous Good, is highly corrosive and has been traditionally used for limescale removal. However, its use caused extensive pipe damage, especially when trapped in 'dead legs' of the system. When left too long, it led to costly repairs for heat exchangers and fire systems.

The acid also posed handling risks, particularly in confined spaces. Regulations require **hydrochloric acid products** to carry warnings such as:

*POISON! DANGER! CORROSIVE.
MAY BE FATAL IF SWALLOWED OR
INHALED. CAUSES SEVERE BURNS
TO ALL BODY TISSUE.*

The Solution: Triple7 EnviroScale

To eliminate these risks, the ADF replaced hydrochloric acid with **Triple7 EnviroScale**, a non-toxic, biodegradable descaler that removes scale without corroding surfaces.

This plant-based solution met strict Defence guidelines (NSN 6850-66-152-0080 [20L] and NSN 6850-66-152-0081 [200L]), ensuring compliance while eliminating safety hazards, reducing disposal costs, and preventing corrosion.

By switching to Triple7 EnviroScale, the ADF could flush pipework and heat exchangers in situ, preventing damage and achieving significant labour and cost savings.



Creating Efficiencies Within Defence

Envirofluid provides a range of versatile, non-hazardous chemicals that improve worker health, protect the environment, protect surfaces, save storage space, and reduce waste disposal costs.

Since 1992, Envirofluid has utilised a holistic approach to chemical usage and partner with clients to provide solutions for WHS issues, cleaning applications, and system malfunctions.

Problematic chemicals can cause damage by eroding surfaces, harming components, and releasing harmful toxins, that leads to costly repairs and health risks. To address these risks, Envirofluid uses the Hierarchy of Controls to enable the elimination or substitution of problematic chemicals.

Envirofluid supports the Defence Department's framework for the management of material sustainment by continuing to supply Triple7 and Purasolve products for General Maintenance, Repair and Operations (MRO) Related Spares and Consumables.

With our range of Australian-made specialty industrial chemistries for cleaning and maintenance, we help the Department of Defence to improve asset management results with up to 80% inventory reduction, waste disposal cost reduction, and substitution of hazardous chemicals with zero-harm alternatives.



Chemical Risk Management: Hierarchy of Control Measures

Envirofluid is working towards its commitment to ensure the elimination and reduction of risks to health, safety and wellbeing, as far as reasonably practicable.

Industries are adapting Hazardous Chemicals Reduction Program Plans to manage and reduce risks involved with the use, handling, and storage of hazardous chemicals.

In this regard, enterprises have been directed to identify less hazardous chemicals for use as a priority.

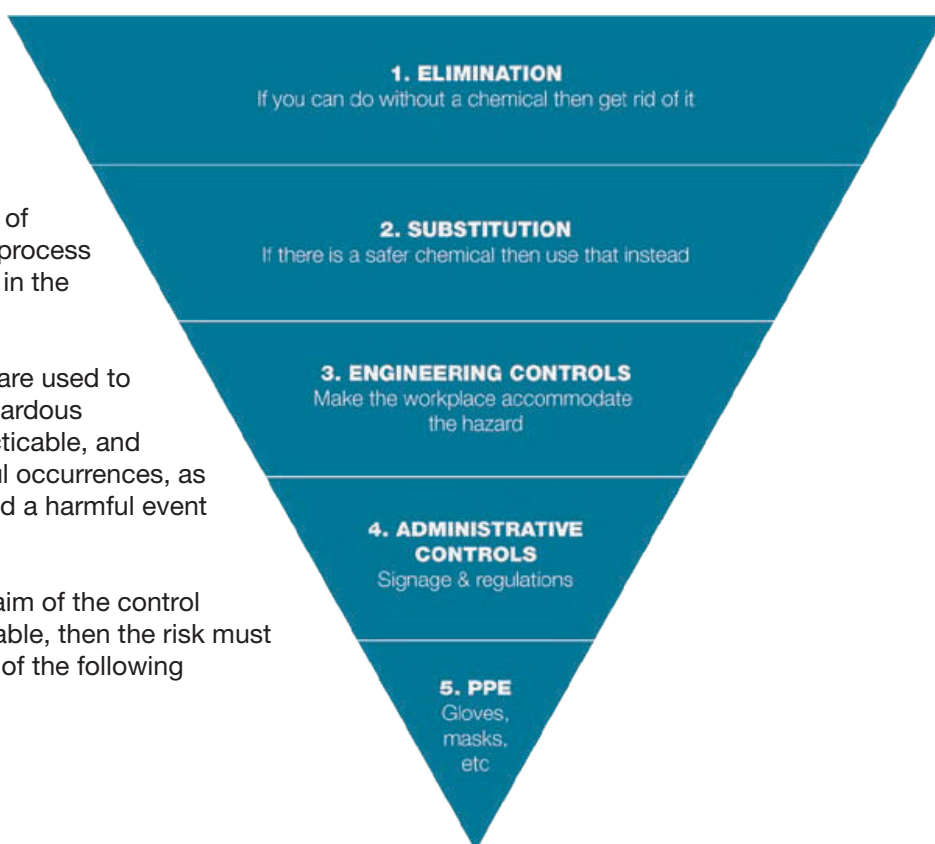
Hazardous Chemicals Management Procedures adhere to the Hierarchy of Control Measures, a risk mitigation process that must be taken to ensure safety in the workplace.

The Hierarchy of Control Measures are used to eliminate or minimise risks from hazardous chemicals as far as reasonably practicable, and include measures to prevent harmful occurrences, as well as measures for recovery should a harmful event occur.

Eliminating a hazard is the primary aim of the control measures. If not reasonably practicable, then the risk must be minimised by using one or more of the following strategies:

- Substitution
- Isolation
- Engineering controls

If after the above-mentioned strategies have been implemented and there remains residual risk, they must be reduced by implementing administrative controls and usage of personal protective equipment (PPE). However, these strategies rely on human behaviour and supervision and should not be used on their own since they are the least effective methods in minimising risks.



Codes, Certifications & Accreditations

- **ISO 45001:2018:** Health & Safety System Certification
- **ISO 9001:2015:** Quality Management System Certification
- **ISO 14001:2015:** Environmental Management System Certification
- **+61 3 5564 6455**
- **Certified Australian Made:** Supporting local industry and sustainable practices.
- **NATO NSN Coded Products:** Over 85 products approved for Defence and military use.
- **NCAGE Code:** Z02N8
- **NAICS Code:** 424690
- **ABN:** 77 288 189 649
- **JOSCAR ID:** 10033833
- **HELLIOS ID (AU):** 30002689
- **HELLIOS ID (UK):** 10033833

Products and Brands



Capability Statement

Company Overview

Since 1992, Envirofluid has been a trusted provider of environmentally-compliant, highly-concentrated industrial chemicals and workshop equipment. Our mission is to improve worker health, protect the environment and reduce operational costs by substituting hazardous chemicals with **zero-harm alternatives**. We partner with clients across various sectors to deliver solutions that address workplace health and safety (WHS) issues, streamline cleaning applications and enhance system performance. By reducing waste, protecting surfaces and optimising asset management, Envirofluid enables businesses to achieve sustainable results.

Core Competencies

- Specialty Industrial Chemistries
- Substitution of Hazardous Chemicals
- Asset Management
- Waste Reduction
- After-Sales Support & Training
- Cost Efficiency

Key Customers



Differentiators

- Australian and USA SME
- NATO Endorsed
- Expert Maintenance Solutions
- Environmental & WHS Outcomes
- Sustainability Focused



Past Performance

- Globally-compliant VOC levels achieved on full Defence range of MRO sustainment chemicals and solvents
- Inventory reduction of 80% on AU Navy LHD's and other Defence Platforms
- Establishment of non-HAZMAT pipe laundry at ship-building facilities
- 98% reduction in waste streams associated with workshop solvents



Manufacturer of the Year Award Winner 2022 for Defence Industry



Aviation Sustainability Drivers for Change Award Winner 2024

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