Technical Bulletin

Nanocyn™ Advanced | Hospital-grade disinfectant, sanitiser and cleaner

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Summary. Nanocyn Advanced is a ready-to-use, pH-neutral, broad-spectrum, hospital-grade hard surface disinfectant entered on the Australian Register of Therapeutic Goods. Listed efficacy covers Gram-positive and Gram-negative bacteria, yeasts, fungi and mould, and enveloped and non-enveloped viruses, including **Clostridium difficile**, **Candida auris**, **Norovirus** and **SARS-CoV-2**. The product is not classified as hazardous under the model WHS Regulations and GHS (Revision 7), is not a Dangerous Good, is not a Scheduled poison, and requires no PPE under normal conditions of use.

PERFORMANCE HIGHLIGHTS

30 SEC Non-enveloped viruses

Norovirus (Gastro) and Poliovirus in 30 seconds. Non-enveloped viruses are the most resistant viral class to chemical disinfection.[5] Globally, norovirus is the leading cause of acute gastroenteritis outbreaks.[6]

15 SEC SARS-CoV-2 (COVID-19)

The fastest contact time on the ARTG entry. Herpes Simplex Virus, an enveloped virus, in 30 seconds.

Candida auris

Named on the ARTG entry. An urgent threat, the CDC's highest level,[1] and in the critical priority group of the WHO Fungal Priority Pathogens List.[2] Spreads easily in nursing homes.[3]

Clostridium difficile

Named on the ARTG entry. Causes life-threatening diarrhoea and is listed as a serious threat by the CDC.[1] A core target of environmental cleaning in hospitals and aged care.

Fungi & Mould

Listed efficacy against Fungi & Mould (T. mentagrophytes, Tinea), alongside the yeast C. auris. Full fungal and yeast coverage from the same ready-to-use product.

Hospital grade. pH neutral. Zero hazard classification.

Neutral pH, approx. 7. Not classified as hazardous under the model WHS Regulations and GHS. Not a Dangerous Good. Not a Scheduled poison. No signal word, no pictogram, no PPE under normal use.

Every delivery method

Ready to use, no dilution, no rinse. Listed for spray and wipe, misting, fogging, ULV and electrostatic application, for routine and terminal cleaning.

Independently approved

TGA ARTG listed. US EPA registered. Green Seal certified. Approved by Boeing, Airbus, Textron and Leonardo for use on aircraft.

1. PRODUCT IDENTIFICATION

Product name	Nanocyn™ Advanced
Product type	Broad-spectrum, hospital-grade, hard surface disinfectant, sanitiser and cleaner
Therapeutic goods category	Listed disinfectant, hospital grade (GMDN 9950)
Format	Ready to use. Do not dilute
pH	Neutral, approx. 7
Pack sizes	500 mL, 990 mL, 5 L
ARTG Sponsor	MicroSafe Care Australia Pty Ltd, PO Box 57, Stepney SA 5069

2. REGULATORY STATUS AND CERTIFICATIONS

Authority	Instrument	Reference / status
Therapeutic Goods Administration (Australia)	Australian Register of Therapeutic Goods	AUST L 520725. Active, ARTG start date 21 November 2025
US Environmental Protection Agency	Pesticide registration	Reg. No. 100798-1
Green Seal	Environmental and health certification	Certified
Aircraft manufacturers	Material compatibility	Approved by Boeing, Airbus, Textron and Leonardo
Safe Work Australia	Model WHS Regulations, GHS (Revision 7)	Not classified as hazardous
Poisons Standard (SUSMP)	Scheduling	Not scheduled
ADG Code, IATA, IMDG	Dangerous goods transport	Not a Dangerous Good

3. MICROBIOLOGICAL EFFICACY

All organisms and contact times below are as entered on ARTG 520725. Contact time is the period the treated surface must remain wet.

3.1 Coverage by resistance to chemical disinfection

Microorganisms differ in their resistance to chemical disinfectants.[5] Nanocyn Advanced achieves its fastest listed contact times against viruses, including the most resistant viral class.

1	**Non-enveloped viruses** MOST RESISTANT VIRAL CLASS	Norovirus (Gastro), Poliovirus	**30 seconds**
2	**Fungi, mould and yeasts**	T. mentagrophytes (Tinea), Candida auris	**10 minutes**
3	**Bacteria**	Clostridium difficile, E. coli, Pseudomonas aeruginosa	**10 minutes**
4	**Enveloped viruses**	SARS-CoV-2 (COVID-19), Herpes Simplex Virus	**15 to 30 seconds**

Ranked from most to least resistant among the classes claimed. Contact times as entered on ARTG 520725.

3.2 Listed organisms

Organism class	Organism	Contact time	Relevance
Gram-positive bacterium	Clostridium difficile (C. diff.)	**10 minutes**	Causes life-threatening diarrhoea. Serious threat, CDC antimicrobial resistance threats report 2026.[1]
Yeast	Candida auris (C. auris)	**10 minutes**	Urgent threat, the CDC's highest level.[1] Critical priority group, WHO Fungal Priority Pathogens List.[2] Spreads easily in nursing homes.[3]
Fungi & Mould	Trichophyton mentagrophytes (Tinea)	**10 minutes**	Dermatophyte fungus. Relevant to bathrooms, change rooms and shared wet areas.
Gram-negative bacteria	Escherichia coli Pseudomonas aeruginosa	**10 minutes**	Standard reference organisms for hospital-grade disinfectant efficacy.
Non-enveloped viruses	Norovirus (Gastro) Poliovirus	**30 seconds**	The most resistant viral class to chemical disinfection.[5] Norovirus is globally the leading cause of acute gastroenteritis outbreaks.[6] Poliovirus is a benchmark test virus in European virucidal standards.[4]
Enveloped virus	Herpes Simplex Virus	**30 seconds**	Contact-transmitted virus.
Enveloped virus	SARS-CoV-2 (COVID-19)	**15 seconds**	Fastest listed contact time on the ARTG entry.

3.3 Approved intended purpose (TGA Public Summary, ARTG 520725, reproduced verbatim)

Nanocyn Advanced is a broad-spectrum, hospital-grade, hard surface disinfectant, sanitiser, and cleaner effective against Bacteria including E. coli and Pseudomonas aeruginosa in 10 minutes. Fungi & Mould – effective against T. mentagrophyte (Tinea) in 10 minutes. Viruses – effective against Herpes Simplex Virus, Norovirus (Gastro) and Poliovirus in 30 seconds. Effective against SARS-CoV-2 (COVID-19) in 15 seconds. Also effective against Candida auris (C. auris) and Clostridium difficile (C. diff.) in 10 minutes. Nanocyn Advanced is intended for use in medical, dental, healthcare, aged care, childcare, aviation, transport, educational, public, leisure, office, food-producing, and general environments. Intended to be used in quarantine facilities. The product can be applied with misting, fogging, ULV and electrostatic delivery devices. Not to be used on medical devices or other therapeutic goods. Not to be used on skin.

4. AREAS OF USE

Environments (ARTG)	Medical, dental, healthcare, aged care, childcare, aviation, transport, educational, public, leisure, office, food-producing and general environments. Quarantine facilities
Surfaces	Hard surfaces
Application methods	Spray and wipe. Misting, fogging, ULV and electrostatic delivery devices
Exclusions	Not to be used on medical devices or other therapeutic goods. Not to be used on skin

5. DIRECTIONS FOR USE

5.1 Routine cleaning and disinfection

1. Remove visible soil from the surface.
2. Apply undiluted by spray, wipe or delivery device, ensuring the surface is fully wetted.
3. Keep the surface wet for the contact time listed for the target organism (Section 3).
4. Allow to air dry, or wipe with a clean cloth. No rinse required. No residue when air dried.

5.2 Terminal cleaning

1. Wipe down all hard surfaces in the room as per 5.1.
2. Treat the vacated room with a misting delivery device.
3. Keep the room closed for the contact time listed for the target organism.
4. Remove the device. No rinse required.

If soil remains after treatment, remove it and reapply. Do not mix with products containing ammonia.

6. HAZARD CLASSIFICATION

Element	Nanocyn Advanced	Element	Nanocyn Advanced
GHS classification	Not classified	UN number	None allocated
Signal word	None	Dangerous Goods class	None
Hazard statements	None	Packing group	Not applicable
Pictograms	None	Marine pollutant	No
Precautionary statements	None	Poisons Standard schedule	Not scheduled
Workplace exposure standard	None established	PPE	Not required under normal use
Engineering controls	Not required under normal use	HMIS / NFPA 704 (US, reference)	Health 0, Flammability 0, Reactivity 0

7. TOXICOLOGICAL AND ECOLOGICAL INFORMATION

Endpoint	Result	Endpoint	Result
Ocular toxicity	Non-toxic	Carcinogenicity	Non-carcinogenic
Dermal toxicity	Non-toxic	Ecotoxicity	None. Safe for aquatic life
Oral toxicity	Non-toxic	Persistence and degradability	100% biodegradable
Dermal sensitisation	Does not cause sensitisation	Disposal	To drain or sewer per local regulations

8. PHYSICAL PROPERTIES

Property	Value	Property	Value
Appearance	Clear, colourless liquid	Flash point	None. Will not burn
Odour	Minimal	Auto-ignition temperature	Not applicable
Relative density	1.0 (water = 1)	Flammability limits	None
Solubility in water	Complete	Explosive properties	None
Freezing point	0°C	Boiling point	> 100°C
pH	Neutral, approx. 7	Corrosivity class (GHS)	Not classified

9. MATERIAL COMPATIBILITY

Approved for use on aircraft by Boeing, Airbus, Textron and Leonardo. Non-staining, with no residue when air dried. Free of alcohol and quaternary ammonium compounds.

10. STORAGE, HANDLING AND STABILITY

Storage	5°C to 25°C, away from direct sunlight and heat. Do not freeze
After opening	Use within 30 days
Stability	Stable under recommended storage and handling conditions. No hazardous decomposition products
Incompatible materials	Products containing ammonia
Handling	No special handling requirements

11. REFERENCES

1. US Centers for Disease Control and Prevention. Antimicrobial resistance threats report, October 2026.

2. World Health Organization. WHO Fungal Priority Pathogens List to Guide Research, Development and Public Health Action, 2022.

3. US Centers for Disease Control and Prevention. Antibiotic Resistance Threats in the United States, 2019.

4. EN 14476. Chemical disinfectants and antiseptics. Quantitative suspension test for the evaluation of virucidal activity in the medical area.

5. Rutala WA, Weber DJ, HICPAC. Guideline for Disinfection and Sterilization in Healthcare Facilities. US Centers for Disease Control and Prevention, 2008.

6. US Centers for Disease Control and Prevention. Norovirus Facts and Stats.

7. TGA Public Summary, ARTG 520725. 8. Nanocyn Advanced Safety Data Sheet, Version 2.0, issued 12 June 2026.

References 1 to 6 describe the organisms and test methods. They are not endorsements of the product.

The information in this bulletin was compiled using the latest and most reliable information available to MicroSafe Care Australia Pty Ltd and is provided without warranty, express or implied, regarding its correctness or accuracy. Efficacy claims are those entered on the ARTG. Always read and follow the product label. It is the responsibility of the user to determine safe conditions for use of this product. MicroSafe Care Australia Pty Ltd accepts no liability for loss or damage arising from use of this information or from improper use of the product. This document remains the property of MicroSafe Care Australia Pty Ltd.