Safety Data Sheet

Nano Kill™ Surface Sanitiser

Section 1: Identification of the substance / mixture and of the company / undertaking

Product Identifier

Product name:	Nano Kill Surface Sanitiser
Other means of identification:	None

Relevant identified user of the substance or mixture and uses advised against

Relevant identified uses:	Hard surface sanitiser. Use according to manufacturer's directions

Details of the supplier of the data sheet

Registered company name:	Ecochem P/L
Address:	5-7 Maria St, Laverton North, Victoria 3026
Phone:	+61 3 5783 2902
Email:	admin@ecochem.com.au

Product and system developed in collaboration with Ten Carbon Chemistry

Emergency telephone number

Emergency Phone Number:	13 11 26 (Poison's Information Centre)

Section 2: Hazards Identification

GHS classification

Non-hazardous chemical. Non - dangerous goods. According to the WHS Regulations and ADG Code.

GHS label elements

Not applicable.

Hazard statements

Not applicable.

Precautionary statements

Not applicable.

Response statements

Not applicable.

Storage statements

Not applicable.

Disposal statements

Not applicable.

Section 3: Composition / information on ingredients

Substance / Mixture

Mixture

Ingredients

CAS No	% Weight	Name
N/A	All ingredients determined not to be hazardous.	

Section 4: First aid measures

Description of first aid measures

Eye Contact	Hold eyelids apart and flush the eye continuously with running water for at least 15 mins. Ensure complete irrigation of eye. Transport to hospital or doctor without delay.
Skin Contact	Wipe off excess with absorbent tissue or towel. If irritation occurs (swelling / redness / blistering), flush contaminated skin with plenty of water and seek medical attention immediately.
Inhalation	If fumes, aerosols or combustion products are inhaled, move person to fresh air.
Ingestion	Immediately rinse mouth with water. First aid is generally not required. If in doubt, consult a doctor or the Poisons Information Centre.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically

Section 5: Firefighting measures

Extinguishing media

No restrictions on the type of extinguishing media. Consider the surrounding areas. In such an event, consider foam, dry chemical powder, and carbon dioxide.

Special hazards arising from the substrate or mixture

None known.

Advice for firefighters

Wear breathing apparatus plus protective gloves in the event of a fire. Prevent spillage from entering drains or water courses. Cool fire exposed containers with water spray from a protected location.

Additional Information

HAZCHEM not applicable.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. See Section 8.

Environmental Precautions

See Section 12.

Methods and materials for containment and cleaning up

Clean up spills immediately using personal protective equipment. Avoid breathing vapours and contact with eyes and skin. Contain spill with absorbent material, such as toweling, sand, vermiculite or other inert material. Prevent spill entering storm water drains or waterways. Wipe up and dispose of clean up material in a suitable, labelled container for waste disposal.

Section 7: Handling and storage

Precautions for safe handling

Use within a well ventilated area, and according to the manufacturer's use instructions. When exposed to large quantities outside the manufacturer's use instructions, limit unnecessary personal contact by wearing protective clothing when risk of exposure occurs.

Conditions for safe storage, including any incompatibilities

Check all containers are clearly labelled and free from leaks. Store product in original containers. Store in a cool, dry, well -ventilated area. Store away from incompatible materials and foodstuff. Keep containers securely sealed. Protect containers against physical damage and check regularly for leaks. No storage incompatibilities known.

Section 8: Exposure controls / per sonal protection

Control parameters

Contains no substances with known Occupational Exposure Limits (OEL).

Exposure controls

Appropriate engineering controls	Use in well ventilated area. Handle in accordance with good industrial hygiene and safety practice.
Personal protective equipment	No special equipment required when handling small quantities. Otherwise, use equipment for eye protection tested and approved by government standards, wear chemical protective gloves, wear overalls, and have access to an eye wash station. If required, respiratory protection should be suitable for particulate matter (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent).

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Clear to slight yellow liquid; mixes with water
Physical state	Liquid
Odour	Characteristic
Odour threshold	Not available
pH	7.6 – 8.6
Melting point / freezing point	approx. 0 °C
Initial boiling point	approx. 100 °C
Flash point	N/A
Evaporation rate	Not available
Flammability	N/A
Upper explosive limit	N/A
Lower explosive limit	N/A
Vapour pressure	Not available
Solubility in water	Miscible
Vapour density (air = 1)	Not available
Relative density (water = 1)	1.00 – 1.02
Partition coefficient n-octanol / water	Not available

Auto ignition temperature	N/A
Decomposition temperature	Not available
Viscosity (cSt)	approx. 1cP
Molecular weight (g/mol)	N/A
Taste	N/A
Explosive properties	Not available
Oxidising properties	Not available

Section 10: Stability and reactivity

Reactivity

No data available.

Chemical stability

Product is considered stable.

Possibility of hazardous reactions

Product should not undergo hazardous reactions under recommended use and storage conditions.

Conditions to avoid

No data available.

Incompatible materials

Do not mix with other chemicals.

Hazardous decomposition products

No data available.

Section 11: Toxicological information

Information on toxicological effects

Acute toxicity

No data available. For capric acid, the acute oral LD50 value in rats was >10,000 mg/kg.

Skin irritation / corrosion

Limited evidence exists. Skin contact is not thought to have harmful health effects (as classified under EC Directives). Skin irritation may be caused in some persons and after repeated exposure. Open skin should not be exposed to the product. Entry into the bloodstream, through cuts, abrasions or wounds, may produce systemic injury with harmful effects.

Serious eye damage / irritation

The product may be irritating to the eye, with prolonged contact causing inflammation.

Respiratory or skin sensitization

Limited data available. Unlikely to be a hazard due to non-volatile nature of product. The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measure be used in an occupational setting.

Mutangenicity

No data available.

Carcinogenicty

No ingredient of this product present at levels greater than or equal to 0.1% is probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available.

STOT – single exposure

No data available

STOT – repeated exposure

No data available

Aspiration hazard

No data available

Section 12: Ecological information

Toxicity

No product data available.

For capric acid, according to *Europe ECHA Registered Substances – Ecotoxicological Information – Aquatic Toxicity* :

Endpoint	Test Duration (hour)	Species	Value (mg/L)
LC50	96	Fish	>16
EC50	48	Crustacea	>20
EC50	72	Algae	5.9
NOEC	504	Crustacea	0.2

Persistence and degradability

No product data available. For capric acid, low persistence in water, soil and air.

Bioaccumulative potential

No product data available. For capric acid, medium bioaccumulation (LogKOW = 4.09)

Mobility in soli

No data available. For capric acid, low mobility (KOC = 87.16).

Section 13: Disposal considerations

Waste treatment methods

Consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Dispose of by burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus. Decontaminate empty containers and recycle according to packaging labels

Section 14: Transport information

Labels required

No. Not a marine pollutant. HAZCHEM not applicable.

Land transport (ADG)

Not regulated for transport of dangerous goods.

Air transport (ICAO – IATA / DGR)

Not regulated for transport of dangerous goods.

Sea transport (IMDG -Code / GGVSee)

Not regulated for transport of dangerous goods.

Transport in bulk according to Annex II of MARPOL and IBC code

Not applicable.

Section 15: Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

Australian Inventory of Chemical Substances (AICS)	All ingredients listed
New Zealand Inventory of Chemicals (NZIoC)	All ingredients listed.

Section 16: Other information

Effective Date

1 January 2021

Version 1

Date for renewal 1 January 2026