



Safety Data Sheet

SECTION 1: Identification of the Material and Supplier

Product Name: GEN 5

Recommended Use: Biological Pathogen Control

Company Name: AWS New Zealand Ltd:

Address: 43 Maurice Rd, Penrose, Auckland NZ



Phone: +64 9 622 4601

Emergency Phone: **CHEMCALL 0800 243 622**
New Zealand Poisons Centre 0800 764 766

Section 2: Hazards Identification

Hazard Classification: Hazardous according to HSNO Regulations

DG Status: Not classified as Dangerous Goods according to NZS5433

HAZARD CLASSIFICATIONS		HAZARD STATEMENTS	GHS Pictogram
HSNO	GHS EQUIVALENT		
6.1E (oral)	Acute toxicity: Oral, Cat 5	H303 May be harmful if swallowed.	N/A
8.2B	Skin corrosion/irritation, Cat 1B	H314 Causes severe skin burns and eye damage.	
8.3A	Serious eye damage/irritation, Cat 1	H318 Causes serious eye damage.	
9.1D	Aquatic toxicity	H410 Designed for biocidal action	N/A
9.3C	N/A	H433 Harmful to terrestrial vertebrates.	N/A
PREVENTION STATEMENTS			
P102	Keep out of reach of children.		
P103	Read label before use.		
P260	Do not breathe mist/vapours/spray.		
P264	Wash thoroughly after handling.		
P273	Avoid release to the environment.		
P280	Wear protective gloves/protective clothing/eye protection/face protection.		
RESPONSE STATEMENTS			
P101	If medical advice is needed, have product container or label at hand.		
P312	Call a POISON CENTER or doctor/physician if you feel unwell.		
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.		
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.		
P363	Wash contaminated clothing before reuse.		

P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P310	Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P391	Collect spillage.
STORAGE STATEMENTS	
P405	Store locked up.
DISPOSAL STATEMENTS	
P501	Do not let this product enter the environment. Do not dispose of in waterways or sewers. Dispose of this material and its container as hazardous waste, via a licensed facility. See local council for disposal/recycling information.

Section 3: Composition/Information on Ingredients

Ingredient	CAS Number	% w/w
Water	7732-18-5	75-85
Didecyl dimethyl ammonium chloride	7173-51-5	5 - <10
Alkyl dimethyl Benzyl ammonium chloride	68424-85-1	1 - <5
Ethanol	64-17-5	1 - <5
Alkyl Glycoside	68515-73-1	<1

Ingredients deemed to be not hazardous in this product: <0.3%

Section 4: First Aid Measures

Eyes: Severely irritating to eyes, flush immediately with plenty of water. Removal contact lens and continue flushing for 15 minutes. Immediately seek Doctors advice

Swallowed: Do not induce vomiting. Drink 2 glasses of water. Call NZ Poisons Centre

Skin: Remove contaminated clothing and shoes. Wash contaminated area with warm water and soap for at least 15 minutes. Seek medical help if irritation develops and persists.

Inhaled: Remove to fresh air. Give oxygen if breathing becomes difficult.

Chronic Health Effects: None Identified

Advice to Doctors: **Treat Symptomatically**

Section 5: Fire Fighting Measures

Extinguisher: Foam, Carbon Dioxide, Dry Chemical

Hazards from the substance: In a fire, hazardous decomposition products may be emitted.

Special precautions for fire fighters: Promptly isolate the scene by removal of persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire fighters: Fire fighters should wear appropriate protective equipment and self contained breathing apparatus (SCBA) with a full face-piece operated in Positive pressure mode.

Section 6: Accidental Release Measures

Emergency Procedures: Keep onlookers away and avoid breathing vapours or dust.

Minor Spills: **Clean up immediately**
 Use absorbent clean materials such as sawdust
 Keep spills and cleaning runoffs out of sewers and waterways
 Wear protective clothing and breathing equipment
 Sweep up
 Store in separate container for recovery/disposal

Major Spills: **Contain spill with inert materials such as sand**
Keep spills out of sewers and waterways
Restrict access to area
Notify Fire Brigade
Wear protective clothing and breathing equipment
Stop leak if safe to do so.
Collect recoverable material into labeled containers and dispose in accordance with local by-laws and regulations.

Section 7: Handling & Storage

Precaution for Safe Handling:

Keep at out of reach of children. Read label before use. Wash hands immediately after handling.
Wear protective gloves, clothing and eye and face protection. Avoid breathing mist or spray.
Avoid release to the environment.

Precautions for Safe Storage:

Store product in cool, dry areas away from heat sources. Avoid damaging containers.
Keep lids on securely when not in use.
Do not store with food products.

Storage temperatures: 1°C - 40°C, do not allow to freeze

Section 8 Exposure Control / Personal Protection

National Exposure Standards:

Product/Ingredient	TWA	STEL	Reference
Ethanol	1000 ppm 1880 mg/m ³	-	NZ WES

Personal Protection:

Eyes:

Use approved chemical goggles.

Hands/Feet:

Protective Cover-All's. PVC or rubber gloves and approved safety boots.

Breathing Apparatus:

Not required for regular usage of product. If the liquid is being vaporized or misted, safety goggles, face shield and vapour respirator may be required.

Ventilation:

Ensure adequate ventilation is available when applying the product.

Section 9: Physical & Chemical Properties

Appearance: Clear blue liquid
Odour: Characteristic amine
pH: 6.0 – 8.0
Melting Point: N/A
Boiling Point: N/A
Flash Point: N/A
Flammability: N/A
Vapour Pressure N/A
Vapour Density: N/A
Specific Gravity: 0.998 ± 0.002
Solubility in Water; 100%
Partition coefficient: N/A
Ignition Temp: N/A
Decomposition Temp: N/A
Viscosity: N/A

Section 10: Stability & Activity

Chemical Stability:

Stable under normal handling and storage conditions

Hazardous Decomposition

Products:

Oxides of carbon and nitrogen

Hazardous Reactions:

Not subject to hazardous polymerization. Thermal decomposition can lead to release of poisonous fumes

Avoid freezing, excessive heat and rapid changes in temperature

Section 11: Toxicological Information

Original data obtained from raw material SDSs/CCID. Mixture rules applied	
Acute Oral Toxicity	May be harmful if swallowed
Acute Dermal Toxicity	Not Classified
Acute Inhalation Toxicity	Not Classified
Acute Aspiration Toxicity	Not Classified
Skin Irritancy/Corrosion	Causes severe skin burns
Eye Irritancy/Corrosion	Causes serious eye damage
Respiratory Sensitisation	Not Classified
Skin Sensitisation	Not Classified
Mutagenic	Not Classified
Carcinogenic	Not Classified
Reproductive/Development Toxicity	Not Classified
STOT-SE	Not Classified
STOT-RE	Not Classified
Toxicity Data	
Product Acute Toxicity Estimate	
Oral LD50	6.1E: 2632 mg/kg
Dermal LD50	>5000 mg/kg
Inhalation LC50 (dust/mist)	>5 mg/L/4H

Section 12 Ecological Information

This product is classified as Ecotoxic according to the criteria of HSNO.	
Persistence & Degradability: Biodegradable	
Mobility: Soluble in water	
Bioaccumulative Potential: Not bioaccumulative	
Very toxic to aquatic life	
Harmful to terrestrial vertebrates	
Ecotoxicity Data	
Product Calculated Aquatic Ecotoxicity – L(E)C50 mg/L: ≤1	
CAS 68424-85-1	
Persistence & Degradability	
Biodegradable	
OECD confirmatory Test: >90%	
CO2 Evolution: 95.5%	
Readily biodegradable: OECD 301 B	
Mobility	
Water: completely soluble	
Ingredients contributing to Aquatic Ecotoxicity:	
Ingredient	Classification
CAS 7173-51-5	9.1A(M10) (Biodegradable, Not Bioaccumulative)
CAS 68424-85-1	9.1A(M10) (Biodegradable, Not Bioaccumulative)

Section 13: Disposal Considerations

Minor liquid spills may be disposed of through town wastewater systems where these are authorized for industrial use.

Major spills which have been collected by machine or on absorbents should be disposed of by waste disposals experts in accordance with local regulations. Wash empty plastic containers before recycling

Section 14: Transport Information

Not regulated for transport of dangerous goods: UN, IATA, IMDG.	
Not classified as a Dangerous Good under NZS 5433:2012 Transport of Dangerous Goods on Land.	
UN Number:	N/A
Proper Shipping Name:	N/A
Class:	N/A
Packing Group:	N/A
Hazchem:	N/A
Marine Pollutant	N/A

Section 15: Regulatory Information

Group Standard:	HSR002526 Cleaning Products – Corrosive
Other Approvals	MPI Approval C41 (All animal products except dairy)
HSNO CONTROLS	
SDS required when any quantity is present in a workplace.	
Emergency Response Plan and Secondary Containment required when >100L is present in a workplace	
Corrosive Signage required when >250L is stored.	
Ecotoxic signage required when >100L is stored.	
(Class 8.2B) Hazardous Substances Location Compliance Certificate required for:	>250L
Certified Handler	Not Required
Tracking	Not Required
All ingredients are on the New Zealand Inventory of Chemicals (NZIoC) or exempt.	
Any existing national regulations on the handling of dangerous substances should be observed.	
Controls for hazardous substances are based upon current knowledge. Where multiple chemicals are stored, controls will need to consider aggregate quantities. Contact a WorkSafe approved Compliance Certifier for further information and guidance.	

Section 16: Other Information

HSNO = Hazardous Substances and New Organisms Act.
EPA = Environmental Protection Authority
CCID = Chemical Classification and Information Database (EPA)
NZ WES = New Zealand Work Exposure Standard
TWA = Time Weighted Average
STEL = Short Term Exposure Limit
CAS = Chemical Abstract Service

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Version 2

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