

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Product name: Slow clean

Synonyms: N/A

Other means of identification: N/A

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

Exterior surface biocidal wash for residential, commercial, and industrial buildings. Intended for the treatment and cleaning of outdoor surfaces such as walls, cladding, roofing, and eaves to remove and inhibit the growth of mould, algae, and mildew. To be used when the surface requires a less harsh biocidal wash than other alternatives. Not for use on skin, in food preparation areas, or for potable water treatment.

Details of the manufacturer or importer of the safety data sheet

Emergency telephone number

NZ POISONS (24hr 7days): 0800 764766

0800 CHEMCALL: (0800 243 622)

SECTION 2 Hazards identification

Hazard classifications and statements:

H Code	Hazard Class – Category: Hazard Statement
H314	Skin corrosion/irritation – Category 1, Sub-category C: Causes severe skin burns and eye damage
H318	Serious eye damage – Category 1: Causes serious eye damage
H410	Hazardous to the aquatic environment (chronic) – Category 1: Very toxic to aquatic life with long lasting effects

Legend: Classification based on mixture and ingredient data, from supplier SDS;

Determined using GHS/HSNO criteria: 8.2C, 8.3A, 9.1A

Label elements:

Hazard pictogram(s):

- GHS09 (Environment) - Environmental hazard
- GHS05 (Corrosion) – Corrosive hazard
- GHS07 (Exclamation mark) - Health hazard warning



Signal word: Danger

Prevention:

- P260: Do not breathe mist, vapours, or spray.
- P264: Wash hands and exposed skin thoroughly after handling.
- P270: Do not eat, drink, or smoke when using this product.
- P273: Avoid release to the environment.
- P280: Wear protective gloves, protective clothing, eye protection, and face protection.
- P281: Use personal protective equipment as required.

Response:

- P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P330: Rinse mouth.
- P331: Do NOT induce vomiting.
- P302+P352: IF ON SKIN: Wash with plenty of water.
- P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- 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.
- P332+P313: If skin irritation occurs: Get medical advice/attention.
- P337+P313: If eye irritation persists: Get medical advice/attention.
- P362+P364: Take off contaminated clothing and wash it before reuse.
- P363: Wash contaminated clothing before reuse.
- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312: Call a POISON CENTER or doctor/physician if you feel unwell.
- P391: Collect spillage.

Storage:

- P405: Store locked up.

Disposal:

- P501: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Poison Schedule:

- N/A (Specify Schedule 5 or 6 if applicable under Australian SUSMP)

Dangerous Goods Classification:

- Dangerous Goods Class: 8 – Corrosive Substances
- UN Number: UN 1760
- Proper Shipping Name: Corrosive Liquid, N.O.S. (Contains Alkyl Dimethyl Benzyl Ammonium Chloride)
- Packing Group: III
- Hazchem Code: 2X

SECTION 3 Composition / information on ingredients

Mixtures:

Ingredients are required by the Hazard Substances (Safety Data Sheets) Notice 2017, EPA consolidation 30 September 2022 to be identified:

Substance:

CAS No	Name	%[weight]
68424-85-1	Benzalkonium Chloride	<30%

Legend: 1. Classification drawn from supplier SDS;

SECTION 4 First aid measures

Description of first aid measures

Eye Contact

If this product comes in contact with the eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

Skin Contact

This material, or a component of the material, can be absorbed through the skin with resultant toxic effects. If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital. For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.

Inhalation

If mist, vapors or spray are inhaled, remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a facemask. If breathing has stopped, apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.

Ingestion

If swallowed, Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of

water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs, give further water. Immediately call Poisons Centre or Doctor.

Notes to physician: Treat symptomatically.

SECTION 5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

- Water spray
- Alcohol-resistant foam
- Dry chemical powder
- Carbon dioxide (CO₂)

Unsuitable extinguishing agents:

- High-pressure water jet (may spread the product)

5.2 Special hazards arising from the substance or mixture

In case of fire, hazardous combustion products may include:

- Hydrogen chloride (HCl)
- Nitrogen oxides (NO)
- Carbon monoxide (CO)
- Carbon dioxide (CO₂)

Product is not classified as highly flammable, but combustible components may contribute to fire intensity under certain conditions.

5.3 Advice for firefighters

Wear full protective clothing and self-contained breathing apparatus (SCBA).

Do not inhale combustion gases or vapours.

Cool endangered containers with water spray.

Prevent fire-fighting water from entering drains or surface water.

Additional information:

Contaminated fire extinguishing water must be collected separately and disposed of according to local regulations.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Risk of slipping on spilled product. Keep unprotected persons away. Wear full protective equipment including:

- Impermeable protective clothing
- Neoprene protective boots
- Nitrile rubber gloves with extended cuffs
- Full face protection

Ensure protective suits offer complete skin and mucous membrane coverage.

Environmental precautions

Prevent release into surface water due to aquatic hazard. Notify authorities if water or sewage systems become contaminated.

Methods and material for containment and cleaning up:

Contain and absorb spillage using a suitable chemical binder or multi-purpose absorbent. Collect and dispose of contaminated material in accordance with Section 13 of this SDS. If released into wastewater, drain and collect the contaminated liquid using appropriate containment methods. Seek supplier or local authority advice for additional guidance on safe cleanup and disposal.

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling procedures:

- Avoid unnecessary personal contact, including inhalation
- Do NOT allow clothing wet with material to stay in contact with skin
- Avoid contact with eyes and skin
- Avoid breathing mist/vapors, especially in enclosed areas
- Use only in well-ventilated areas
- Wash hands thoroughly after handling
- Remove contaminated clothing and wash before reuse
- Do not eat, drink or smoke when using this product
- Ensure eye wash stations and safety showers are accessible

General hygiene considerations:

- Handle in accordance with good industrial hygiene and safety practices
- Regular cleaning of equipment and work area
- Provide adequate ventilation when applying by spray

Storage requirements:

- Store in original containers in a cool, dry, well-ventilated area
- Minimum storage temperature: 7°C
- Protect from freezing - product may be damaged if frozen
- Protect from extreme heat and direct sunlight
- Keep containers tightly closed when not in use
- Store away from children and unauthorized personnel

Container considerations:

- Use only original containers or containers approved for this material
- Ensure container is suitable and properly labeled
- Do not store in unlabeled containers

Incompatible materials:

- Acids. Metals. Metal salts. Methanol. Peroxides. Reducing agents. Ethylene diamine tetraacetic acid. Amines. Ammonia. Ammonium compounds. Aziridine. Urea.

Segregation requirements:

- Separate from incompatible materials
- Store away from heat sources, ignition sources, and direct sunlight
- Ensure adequate separation from oxidizing materials

SECTION 8 Exposure controls / personal protection

Workplace Exposure Standards (WES)

None set

No workplace Exposure Standards (WES) have been set for components in this product. **WES-TWA** = Time-Weighted Average over an 8-hour workday

WES-STEL = Short-Term Exposure Limit (15-minute average)

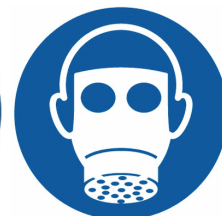
Biological Exposure Index (BEI)

N/A

Engineering controls:

Pictograms:

- Chemical protective gloves (EN ISO 374-1:2016)
- Face shield/visor (EN 166:2001)
- Protective clothing (EN 14605:2009-08)
- Apron
- Respirator



Ventilation

- Do not breathe vapours.
Use this product **outdoors** or in a **well-ventilated area**.
- **Local exhaust ventilation** is recommended to control emissions at the source.
Provide **mechanical ventilation** in confined or enclosed spaces.

Eye and face protection:

- Safety glasses with side shields
- Face shield
- Contact lens use is not recommended

Skin protection:

- Chemical-resistant gloves recommended (nitrile rubber preferred)
- Full protective clothing
- Impervious protective clothing for extensive exposure
- Long-sleeved shirts and long pants recommended
- Apron

Hands/feet protection:

- Wear chemical protective gloves, e.g. nitrile rubber
- Rubber boots recommended for large-scale applications

Respiratory protection:

- Generally not required for outdoor use with adequate ventilation
- For spray application or poorly ventilated areas: Use NIOSH/MSHA approved respirator
- Recommended filter type: Particulate filter (P95 minimum) for spray mist
- Organic vapor cartridge (Type A filter) if significant vapor exposure occurs
- Full face respirator may be required for extensive spray operations
- Wear a mask

Body protection:

- Impervious apron for protection against splashes
- Coveralls for extensive exposure
- Remove contaminated clothing immediately and wash before reuse

Other protection:

- Emergency eye wash and safety shower should be available
- Suitable facilities for washing hands and face should be available

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Property	Value
Appearance	Clear liquid
Physical state	Liquid
Relative density (Water = 1)	1
Odor	Mild
Partition coefficient n-octanol / water	Not Available
Odor threshold	Not Available
Auto-ignition temperature (°C)	Not Available
pH (as supplied)	5-10
Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	0
Viscosity (cSt)	1
Initial boiling point and boiling range (°C)	>100
Molecular weight (g/mol)	Not Applicable (mixture)
Flash point (°C)	The mixture has no flashpoint.
Taste	Not Available
Evaporation rate	Not Available
Explosive properties	Not explosive
Flammability	Product is not inflammable.
Oxidising properties	Not oxidizing
Upper Explosive Limit (%)	Not Available
Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available
Volatile Component (%vol)	>60%

Vapour pressure at 20°C	Not Available
Gas group	Not Applicable
Solubility in water	Fully miscible
pH as a solution (1%)	Not Available
Vapour density at 20°C (kPa)	Not Available

SECTION 10 Stability and reactivity

Property	Information
Reactivity	Reacts with strong oxidizing agents; incompatible with anionic surfactants and certain detergents which may reduce effectiveness; may react with strong acids or bases and some organic materials under adverse conditions.
Chemical Stability	Stable under recommended storage conditions; decomposes slowly with heat, sunlight, or metal contamination.
Possibility of Hazardous Reactions	Vigorous reactions with incompatible substances; release of hazardous gases; may intensify fire with flammables.
Conditions to Avoid	Excessive heat, direct sunlight, freezing, and contamination with incompatible materials.
Incompatible Materials	Acids, ammonia, reducing agents, metals (iron, copper, nickel, cobalt), organic compounds.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, nitrogen oxides, and other irritating organic fumes.

SECTION 11 Toxicological information

Information on Likely Routes of Exposure	Details
Product Information	No adverse health effects are expected if the product is handled in accordance with this Safety Data Sheet and product label. Overexposure or mishandling may cause the following symptoms:
Inhalation	May cause respiratory irritation.

Skin Contact	Causes burns.
Ingestion	Can burn mouth, throat, and stomach. May cause irritation, corrosion, redness, tearing of eyes, and skin erythema.

Acute Toxicity – Numerical Measures

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
<i>Benzalkonium Chloride</i>	~240–400 mg/kg (Rat)	> 2,000 mg/kg (Rabbit)	Not Available

(See Section 16 for terms and abbreviations.)

Delayed and Immediate Effects / Chronic Effects

Effect	Details
Skin Corrosion/Irritation	Causes skin burns. Classification based on mixture calculation methods using component data.
Serious Eye Damage/Irritation	Causes serious eye damage. Classification based on mixture calculation methods using component data.
Respiratory or Skin Sensitization	No information available.
Germ Cell Mutagenicity	No information available.
Carcinogenicity	Benzalkonium Chloride (CAS 68424-85-1): Not classified as carcinogenic by IARC; no evidence of carcinogenicity in humans based on available data.
Reproductive Toxicity	No information available.
STOT – Single Exposure	No information available.
STOT – Repeated Exposure	No information available.

SECTION 12 Ecological information

Toxicity

Slow clean				
Endpoint	Test Duration (hr)	Species	Value	Source
Not Available	Not Available	Not Available	Not Available	Not Available

Property	Details
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Ecotoxicity	This product is classified as very toxic to aquatic life with long lasting effects (Aquatic Acute 1, Chronic 1).
Aquatic Toxicity Data	Benzalkonium Chloride: Fish (<i>Oncorhynchus mykiss</i>): LC50 ≈ 0.28 mg/L (96h) Crustacea (<i>Daphnia magna</i>): EC50 ≈ 0.016 mg/L (48h) Algae: EC50 ≈ 0.03–0.1 mg/L (72h)
Persistence and Degradability	Quaternary ammonium compounds are expected to undergo biodegradation in the environment, although degradation rates may vary depending on environmental conditions.
Bioaccumulative Potential	Low to moderate potential for bioaccumulation; adsorption to organic matter and sediments may occur.
Mobility in Soil	Moderate mobility in soil; strongly adsorbs to soil particles and organic matter, reducing mobility in many environments.
Other Adverse Effects	Toxic to aquatic organisms; release into waterways should be avoided due to potential environmental harm.

SECTION 13 Disposal considerations

Waste Treatment Methods

Product / Liquid Waste:

- Do not pour unused product into drains, waterways, or onto soil.
- Dispose according to local regulations
- Collect and send large quantities to an approved hazardous waste disposal facility.

Packaging Disposal:

- Empty containers should be fully drained and triple-rinsed with water.
- Rinsate should be used in the cleaning process or disposed of as hazardous waste.
- Puncture or crush empty containers to prevent reuse.
- Recycle containers where facilities exist. Do not reuse containers for food, drink, or feed.

General Disposal Guidance:

- Legislation regarding waste disposal requirements may differ by country, state, or territory; comply with all local, regional, and national regulations.
- Do not allow wash water from equipment cleaning to enter drains or watercourses.
- Waste minimization should be practiced wherever possible.
- For large-scale disposal or treatment, contact local environmental or waste authorities.

SECTION 14 Transport information

Field	Information
UN Number	UN 1760
Proper Shipping Name	Corrosive Liquid, N.O.S. (Contains Alkyl Dimethyl Benzyl Ammonium Chloride)
Transport Hazard Class(es)	Class 8 – Corrosive Substances
Subsidiary Risk	None
Packing Group	III (may be II depending on concentration)
Environmental Hazards	Environmentally Hazardous Substance / Marine Pollutant
Hazchem Code	2X
Special Precautions for User	Avoid release to the environment. Prevent contact with skin and eyes. Ensure containers are upright and secured during transport. Keep away from incompatible materials such as oxidizers and anionic surfactants.
Transport Labels	Corrosive (Class 8), Environmentally Hazardous (Marine Pollutant)
Transport Regulations	ADR/RID: UN 1760, Corrosive Liquid, N.O.S. (Alkyl Dimethyl Benzyl Ammonium Chloride), Class 8, PG III, Environmentally Hazardous IMDG: UN 1760, Corrosive Liquid, N.O.S., Class 8, PG III, Marine Pollutant IATA: UN 1760, Corrosive Liquid, N.O.S., Class 8, PG III

SECTION 15 Regulatory information

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

This material/constituent(s) is covered by the following requirements:

- The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act (Commonwealth)
- All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS)
- All components of this product are listed on or exempt from the New Zealand Inventory of Chemical (NZIoC)

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number: HSR002657	Disinfectants and Biocides Group Standard
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Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

Benzalkonium Chloride (CAS 68424-85-1) are found on the following regulatory lists:

- New Zealand Hazardous Substances and New Organisms (HSNO) Act – Classification of Chemicals
- New Zealand Hazardous Substances and New Organisms (HSNO) Act – Classification of Chemicals – Classification Data
- New Zealand Inventory of Chemicals (NZIoC)

Hazardous Substance Location: N/A

Certified Handler: N/A

Maximum quantities of certain hazardous substances permitted on passenger service vehicles: N/A

Tracking Requirements: N/A

National Inventory Status

National Inventory	Status
Australia - AIC / Australia Non-Industrial Use	Yes
New Zealand - NZIoC	Yes

Legend: Yes = All CAS declared ingredients are on the inventory

No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

SECTION 16 Other information

Revision Date: 05/03/2031

Initial Date: 05/03/2026

SDS Version Summary

Version	Date of Update	Sections Updated
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1.0	05/03/2026	Complete document with enhanced safety information, expanded handling procedures, detailed PPE recommendations, and comprehensive physical properties
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Other information

Disclaimer: The information contained in this Safety Data Sheet is based on data from sources considered technically reliable. It is provided for guidance only and does not constitute a guarantee of the properties of the product. Users should make their own investigations to determine the suitability of the information for their particular applications.

Training recommendations:

- Ensure all personnel are trained in safe handling procedures
- Provide training on emergency procedures and spill response
- Train workers in proper use of personal protective equipment
- Regular refresher training on chemical safety procedures

Additional safety considerations:

- Maintain good housekeeping practices
- Ensure adequate ventilation in work areas
- Regular equipment maintenance and inspection
- Emergency procedures should be practiced regularly

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment.

Definitions and Abbreviations:

- PC TWA: Permissible Concentration-Time Weighted Average
- PC STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- PNEC: Predicted No-Effect Concentration

- MARPOL: International Convention for the Prevention of Pollution from Ships
- IMSBC: International Maritime Solid Bulk Cargoes Code
- IGC: International Gas Carrier Code
- IBC: International Bulk Chemical Code
- CAS No: Chemical Abstract Service number
- TWA: Time Weighted Average
- VOC: Volatile Organic Compounds – organic chemicals with high vapor pressure that contribute to air pollution
- PPE: Personal Protective Equipment
- NIOSH: National Institute for Occupational Safety and Health (US agency)
- MSHA: Mine Safety and Health Administration (US agency)
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- HSNO: Hazardous Substances and New Organisms Act 1996 (New Zealand)
- UN Number: United Nations number assigned to hazardous substances for transport identification
- HAZCHEM: Hazardous Materials Emergency Action Code for NZ/Australia used in transport emergency response
- Pictogram: Graphical symbol on labels used to convey chemical hazard information under GHS
- Signal Word: "Warning" or "Danger" used on GHS labels to indicate severity of hazard
- STOT: Specific Target Organ Toxicity – chemicals that cause non-lethal organ effects from single or repeated exposure
- LD50: Median Lethal Dose – dose required to kill 50% of test population
- LC50: Median Lethal Concentration – airborne concentration causing death in 50% of test population
- NZIoC: New Zealand Inventory of Chemicals – list of substances approved under the HSNO Act
- EPA Approval: Environmental Protection Authority approval of a substance under a Group Standard
- HSR Number: Hazardous Substances Register number issued under HSNO for regulatory tracking
- Group Standard: Approval covering groups of substances with similar properties and risks under HSNO

Version No: 1.0

Slow clean

Issue Date: 05/03/2026

Print Date: 05/03/2026

end of SDS