1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	**Heavy Duty Disinfectant – Lemon**
Recommended Use:	Heavy duty commercial and industrial disinfectant
Supplier: **ABN:**	Big Bubble 51 290 656 636
Street Address:	18 Elliott Street Midvale Western Australia
Telephone Number:	+61 08 9274 1992
Poisons Information Centre:	**131 126 Australia**

2. HAZARDS IDENTIFICATION

Road and Rail; Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Globally Harmonised System

Hazard Classification
Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Hazard Categories	Category 1 – Skin corrosion / irritation Category 1 – Serious eye damage / irritation

Pictogram

Name of pictogram	Corrosive
Signal Word	Danger
Hazard Statements	**H314** Causes severe skin burns and eye damage.

Precautionary Statement

Prevention	**P260** Do not breathe mist/vapours/spray. **P264** Wash all exposed external body areas 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.
Response	**P301 + P312** IF SWALLOWED: Call a POISON CENTRE/doctor/physician/first aider. **P301 + P330 + P331** IF SWALLOWED: Rinse mouth. DO NOT Induce vomiting. **P303 + P361 + P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower). **P304 + P340** IF INHALED: Remove person to fresh air and keep comfortable for breathing. **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 CENTRE/doctor/physician/first aider. **P363** Wash contaminated clothing before reuse. **P391** Collect spillage.
Storage	**P405** Store locked up.
Disposal	**P501** Dispose of contents/container to an authorised hazardous or special waste collection point in accordance with any local regulation.
Poisons Schedule:	**Schedule 5**

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion
Benzyl C12-16-alkyldimethylammonium chloride	68424-85-1	5 – 15%
Alcohols C12-14 ethoxylated	68439-50-9	1 – 10%
Ethanol	64-17-5	<1%
Ingredients determined not to be hazardous		Balance %

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor at once.

Ingestion:	IF SWALLOWED: Do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness, i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Transport to hospital or doctor without delay.

Eye Contact:	IF IN EYES: Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact:	IF ON SKIN (or hair): Immediately flush body and clothes with large amounts of water, using safety shower if available. Quickly remove all contaminated clothing, including footwear. Wash skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre. Transport to hospital without delay.
Inhalation:	IF INHALED: Remove casualty from contaminated area. Lay patient down. Keep warm and rested. Prosthesis such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital or doctor, without delay. Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema. Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs). As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi-recumbent posture) and must be kept under medical observation even if no symptoms have manifested yet.
Medical attention and special treatment:	Treat symptomatically.

5. FIRE FIGHTING MEASURES

General	If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.
Flammability Conditions	Not considered a significant fire risk however, containers may burn.
Suitable Extinguishing Media:	Foam, dry chemical powder, carbon dioxide (CO_2). Use suitable extinguishing media for surrounding area.
Fire and Explosion Hazards	Non-combustible.
Hazardous combustion products:	May evolve toxic and/or corrosive gases including hydrogen chloride and oxides of Carbon and Nitrogen.
Precautions for fire fighters and special protective equipment:	Wear full body protective clothing with breathing apparatus. Prevent by any means available, spillage from entering drains or water course.

Auto Ignition temperature: No Data Available

Decomposition Temperature: No Data Available

Flammability:	No Data Available
Flash Point:	No Data Available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Ensure adequate ventilation. Eliminate all sources of ignition. Do not touch or walk through spilled material. Avoid breathing mists and contact with eyes, skin, and clothing.
Protective equipment:	Wear personal protective equipment as required (see SECTION 8).
Emergency procedures:	Stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel and move upwind.
Environmental Precautions:	Prevent entry into drains and waterways. If contamination of sewers or waterways occurs, inform the local water and waste management authorities in accordance with local regulations.
Methods and materials for Containment and clean up:	If possible, contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations (see SECTION 13).

7. HANDLING AND STORAGE

This material must be stored, maintained and used in accordance with the relevant regulations.

Conditions for safe storage:	Keep in the original container. Store in a cool, dry, well-ventilated area away from sources of ignition, foodstuffs, clothing, and incompatible materials (see SECTION 10). Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Ensure that storage conditions comply with applicable local regulations and national regulations.
Precautions for safe handling:	Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Avoid inhalation of vapours and mists, and skin or eye contact. Use only in a well-ventilated area. Keep containers sealed when not in use. Prevent the build-up of mists or vapours in the work atmosphere. Do not use near ignition sources. Do not pressurise, cut, heat, or weld containers as they may contain hazardous residues. Maintain high standards of personal hygiene. Use personal protective equipment as required (see SECTION 8).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure control measures:	Benzyl C12-16-alkyldimethylammonium chloride – TEEL – 1: 1.3 mg/m^3 Benzyl C12-16-alkyldimethylammonium chloride – TEEL – 2: 14 mg/m^3 Benzyl C12-16-alkyldimethylammonium chloride – TEEL – 3: 84 mg/m^3
Biological Monitoring	No information available.
Engineering Controls	This substance should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.
Personal Protective Equipment	
Eye and Face	Wear eye protection. Recommended: Chemical goggles, full face shield may be required for supplementary protection but never for primary protection of eyes.
Skin	Wear chemical protective gloves. Recommended: PVC. Wear safety footwear, or safety gumboots. Recommended: Rubber, PVC apron, overalls.
Respiratory	Wear respiratory protection. Wear a P-type 2 filter (refer to AS/NZS 1715 & 1716).

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Yellow
Odour:	Lemon
pH:	7.8 – 8.5
Solubility:	Miscible with water
Auto Ignition temperature:	No Data Available
Decomposition Temperature:	No Data Available
Evaporation Rate:	No Data Available
Flammability:	No Data Available
Flash Point:	No Data Available
Boiling Point:	No Data Available
Melting/Freezing Point:	No Data Available

Freezing Point	No Data Available
Odour Threshold:	No Data Available
Partition coefficient: n-octanol/water	No Data Available
Relative Density:	No Data Available
Upper Flammibility Limit	No Data Available
Lower Flammability Limit:	No Data Available
Explosive limits:	No Data Available
Vapour density:	No Data Available
Vapour pressure;	No Data Available
Viscosity:	No Data Available
Biopersistence:	No Data Available
Crystallinity:	No Data Available
Dustiness:	No Data Available
Particle size:	No Data Available
Redox potential:	No Data Available
Release of invisible flammable vapours and gases	No Data Available
Saturated Vapour Concentration	No Data Available

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of storage and handling.
Conditions to avoid:	Heat, open flames, and other sources of ignition.
Incompatible materials:	Reactive/incompatible with galvanised steel, zinc, oxidising agents, strong bases.
Hazardous decomposition products:	May evolve toxic and/or corrosive gases including hydrogen chloride and oxides of Carbon and Nitrogen.
Hazardous reactions or Polymerisation:	Hazardous polymerisation will not occur.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: This material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion. Nausea, vomiting, diarrhoea and a pronounced thirst may occur.

Eye contact: This material can produce chemical burns to the eye following direct contact. Eye contact may produce pain, lachrymation, photophobia, and burns.

Skin contact: This material can produce chemical burns following direct contact on skin.

Inhalation: This material may produce respiratory tract irritation, coughing, mucous membrane damage, dizziness, and headaches if inhaled.

Acute Toxicity: Benzyl C12-16 alkyldimethylammonium chloride:
- Dermal (rabbit) – LD50: 1490 mg/kg [Supplier's SDS]
- Inhalation (rat) – LC50: 0.22 mg/l4h [Supplier's SDS]
- Oral (rat) – LD50: 358 mg/kg [Supplier's SDS]

Alcohols C12-14 ethoxylated:
- Dermal (rat) – LD50: >=2,000 mg/kg [Supplier's SDS]
- Inhalation (rat) – LC50: >1.6 mg/l4h [Supplier's SDS]
- Oral (rat) – LD50: >2,000 mg/kg [Supplier's SDS]

Carcinogenity: Not expected to be carcinogenic.

Mutagenicity: Not expected to be mutagenic.

Reproductive: Not expected to impair fertility.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Benzyl C12-16 alkyldimethylammonium chloride:
- Algae / other aquatic plants – EC50 – 72h: 0.014 mg/L [Supplier's SDS]
- Algae / other aquatic plants – NOEC(ECx) – 72h: <=0.001 mg/L [Supplier's SDS]
- Crustacea – EC50 – 48h: 0.016 mg/L [Supplier's SDS]
- Fish – LC50 – 96h: 2.256 mg/L [Supplier's SDS]

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal methods: Dispose of in accordance with all local, state and federal regulations.
All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.
Or refilled at Big Bubble in Midvale.

14. TRANSPORT INFORMATION

Road and Rail Transport
Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Marine Transport
Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

Air Transport
Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

15. REGULATORY INFORMATION

Poisons Schedule: Schedule 5

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor at once.

If swallowed, do NOT induce vomiting.

If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor, or for at least 15 minutes.

16. OTHER INFORMATION

Revision date: 14/08/2025
Reason for issue: Update SDS

This material safety data sheet has been prepared by Midland Chemicals

This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. No liability is accepted whether direct or indirect from its application since the conditions of final use are outside Midland Chemicals control. The end user is obliged to conform to relevant government regulations and/or patent laws applicable in their respective States of Countries.