

## SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

GHS Product identifier: Clinikill Concentrate  
Other means of identification: Clinikill  
Recommended use of the product and restrictions on use: A disinfectant, germicidal detergent  
Supplier's Details: Pharmachem  
Unit 6, 70 Fison Ave West  
Eagle Farm QLD 4009  
Telephone: (07) 3868 0333  
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Contact Person: Mr Gray Boston  
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## SECTION 2 HAZARDS IDENTIFICATION

### Classification of Product:

This product is classified as a health hazard in accordance with the following classification criteria of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Third Revised Edition.

Health hazards: Respiratory sensitizer, skin sensitizer

Respiratory sensitizer: Category 1

GHS label elements, including precautionary statements:

Pictogram:



Signal word: Danger  
Hazard statement: May cause allergy or asthma symptoms or breathing difficulties if inhaled  
Precautionary statement: Prevention: Avoid breathing vapour  
Response: If inhaled call a doctor or Poisons Information Centre

Skin sensitizer: Category 1

GHS label elements, including precautionary statements:

Pictogram:



Signal word: Warning  
Hazard statement: May cause an allergic skin reaction  
Precautionary statements: Prevention: Wear protective gloves and clothing.  
Response: If on skin wash with plenty of soap and water.  
If skin irritation or rash occurs get medical advice.  
Wash contaminated clothing before re-use.

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Cas No.	Proportion
Benzalkonium Chloride	8001-54-5	0.77%
Surfactant	Not Applicable	<1%
Fragrance and Dye	Not Applicable	<1%
Water	Not Applicable	QS 100%

### SECTION 4 FIRST AID MEASURES

The following First Aid directions have been set by the Office of Chemical Safety (OCS) of the Commonwealth Department of Health and Aging:

If poisoning occurs, contact a doctor or Poisons Information Centre. Telephone 131126. (*FAISD Handbook, Handbook of First Aid Instructions, Safety Directions, Warning Statements, and General Safety Precautions for, Agricultural and Veterinary Chemicals*)

However the following additional information is provided for assistance in emergent circumstances:

Ingestion: As above  
Eyes: Irrigate with copious quantities of water for 15 minutes. Seek medical assistance if effect persists.  
Skin: Wash affected areas with soap and water.  
Inhaled: Remove effected person to a well-ventilated area

Advice to doctor: Treat symptomatically

### SECTION 5 FIRE FIGHTING MEASURES

Fire/Explosion Hazard: Non-combustible  
Suitable extinguishing media: Use extinguishing media suitable for surrounding fire  
Hazards from combustion products: Small amounts of carbon monoxide, nitrogen oxides and hydrogen chloride could evolve on heating from the small amount of benzalkonium chloride in this product  
Special protective precautions and equipment for fire fighters: Self contained breathing apparatus and chemical splash suits are recommended, depending on the size of the fire and the involvement of this product.  
Hazchem Code: None allocated

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Emergency procedures:  
Contain spills using inert, absorbent material. Slippery when wet. Avoid accidents, clean up immediately. Do not allow spilled material to enter waterways or drains.

Methods and materials for containment and clean up:  
Use inert absorbent material (eg soil, sand, vermiculite). Collect and seal in containers for disposal. After collection of absorbed spill, wash area down with detergent and excess water.

### SECTION 7 HANDLING AND STORAGE

Precautions for safe handling:  
Contamination of surfaces will result in them becoming very slippery. Avoid contamination of surfaces with this product.

Conditions for safe storage, including any incompatibilities:  
Store below 30° (Room Temperature) in the original container out of direct sunlight.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

National exposure standards: None allocated  
Biological limit values: None allocated  
Engineering controls: Use with adequate ventilation.  
Personal protective equipment:

The following Safety Directions have been set by the Office of Chemical Safety (OCS) as part of the assessment of this product for registration by the Australian Pesticides & Veterinary Medicines Authority (APVMA). (*FAISD Handbook, Handbook of First Aid Instructions, Safety Directions, Warning Statements, and General Safety Precautions for, Agricultural and Veterinary Chemicals*):

Will damage the eyes and will irritate the skin. Repeated exposure may cause allergic disorders. Avoid contact with eyes and skin. When opening the container and preparing the disinfectant solution wear cotton overalls buttoned to the neck and wrist and washable hat and elbow-length PVC gloves and goggles. When using the disinfectant solution wear elbow-length PVC gloves and goggles. If product on skin immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each days use, wash gloves, goggles and contaminated clothing.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance (colour, physical form, shape): A blue, transparent liquid  
Odour: Pleasant perfume.  
Solubility (specify solvent, e.g. water): Miscible in water  
Specific Gravity: 0.9975

## SECTION 10 STABILITY AND REACTIVITY

Chemical stability: Stable  
Conditions to avoid: None known  
Incompatible materials: None known  
Hazardous decomposition products: None known  
Hazardous reactions: None known

## SECTION 11 TOXICOLOGICAL INFORMATION

### Routes of Exposure:

Exposure to Clinikill may occur through ingestion and eye or skin contact. It is unlikely to occur through inhalation. The major routes of exposure are expected to be eye and skin contact. There are no toxicology data available for Clinikill. Information has been provided for benzalkonium chloride. Other ingredients contribute minimally to the toxicity of the formulation.

### Signs and symptoms of exposure to Clinikill:

Oral: Not known  
Eyes: Not known  
Skin: Not known  
Inhalation: May cause allergy or asthma symptoms or breathing difficulties if inhaled  
Sensitizing: May cause an allergic skin reaction

### Summary of Toxicology:

This product contains benzalkonium chloride at a concentration of 0.77% w/v. This concentration is below the concentration cut-offs for acute toxicity and eye and skin irritation that are specified in the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

However, repeated dermal or intradermal applications of 0.01 – 3% water solution of benzalkonium chloride induced sensitization, eye irritation and skin irritations in several laboratory animals (rabbits, guinea pigs, mice).

Benzalkonium Chloride:

LD <sub>50</sub> – Oral (Rat):	240 mg/kg
Oral – Women (lowest published toxic dose):	266 mg/kg

## SECTION 12 ECOLOGICAL INFORMATION

Clinikill contains benzalkonium chloride at a concentration of 0.77% w/v, which is below the concentration cut-offs for aquatic toxicity specified in the GHS for both acute and chronic aquatic toxicity.

Nevertheless, the following environmental precautions have been set by the Department of Environment and Heritage as part of the assessment of this product for registration by the Australian Pesticides and Veterinary Medicines Authority (APVMA):

“PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT: Do not contaminate streams, rivers or waterways with the chemical or used containers.”

Ecotoxicity:	No information available
Persistence and degradability:	No information available
Mobility:	No information available

## SECTION 13 DISPOSAL CONSIDERATIONS

Disposal methods and containers:

The following disposal directions have been set by the Department of Environment and Heritage as part of the assessment of this product for registration by the Australian Pesticides and Veterinary Medicines Authority (APVMA).

Triple or (preferably) pressure rinse into the medicated wash. Do not dispose of undiluted chemicals on site. Break, crush, or puncture and bury empty container in a local authority landfill. If no landfill is available bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers and product should not be burned.

Obtain instructions from your local government authority for disposal of unwanted product.

## SECTION 14 TRANSPORT INFORMATION

Not defined as Dangerous Goods by the Australian Code for the Transport of Dangerous Goods by Road and Rail

## SECTION 15 REGULATORY INFORMATION

This product has been registered by the Australian Pesticides and Veterinary Medicines Authority (APVMA). In granting registration to any product, the APVMA has exercised its legislative responsibility to ensure that the product is suitably formulated and properly labelled and, when used according to instructions is:

- safe to the host, the user, consumers and the environment;
- efficacious (that is, the product does the job it claims it shall do); and
- not unduly prejudicial to trade.

The APVMA uses the services of a number of Australian and State government agencies as advisers to help with some of these evaluations of applications for registration of agricultural and veterinary chemical products. These include:

- the Office of Chemical Safety (OCS) of the Commonwealth Department of Health and Ageing which:

- evaluates and reports on toxicology and metabolism studies; proposes first aid and safety directions; determines poison schedule classifications; and establishes acceptable daily intakes (ADIs) and acute reference doses (ARfD); and
- evaluates the occupational health and safety aspects of an application and recommends safety directions and occupational controls on use and advises on a Material Safety Data Sheet (MSDS);
- the Commonwealth Department of the Environment and Heritage (DEH) which evaluates environmental data and recommends appropriate use controls and instructions for the product that will protect the environment; and
- State and Territory departments responsible for agricultural and primary industries which evaluate and reports on efficacy and target crop or animal safety data for new agricultural chemicals and new uses of registered products. In some cases the APVMA contracts this work out to other agencies such as universities, the CSIRO or to other experts.

Although all ingredients appear in the Australian Inventory of Chemical Substances (AICS), they have not been assessed by NICNAS (National Industrial Chemicals Notification and Assessment Scheme)

## SECTION 16 OTHER INFORMATION

MSDS version:	2
Date of Revision:	March 2017
Update of sections:	Update to GHS

### **CONTACT POINT**

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### **References:**

1. FAISD Handbook, Handbook of First Aid Instructions, Safety Directions, Warning Statements, and General Safety Precautions for, Agricultural and Veterinary Chemicals, (as updated)
2. Approved Criteria For Classifying Hazardous Substances, NOHSC:1008 (2004)
3. National Code of Practice for the Preparation of Material Safety Data Sheets 2<sup>nd</sup> Edition [NOHSC:2011 (2003)]
4. AICS (Australian Inventory of Chemical Substances), Safework Australia
5. APVMA Manual of Requirements and Guidelines for Agricultural Chemicals, Version 4.1, (as updated)
6. ADI [Acceptable Daily Intake] List, Commonwealth Department of Health & Aged Care, TGA, (as updated)
7. The Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) 7<sup>th</sup> Edition
8. The Poisons Standard (as updated), Commonwealth Department of Health
9. Hazardous Substances Information System, Safework Australia (as updated)
10. Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Third Revised Edition, United Nations, New York and Geneva, 2009
11. International Programme On Chemical Safety, Environmental Health Criteria 94, Permethrin, UNEP, ILO, WHO, Geneva, 1990

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