

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product (material) name: Pharma-Chemical Quick-Kill Rinse Concentrate For Fleas, Ticks And Lice
Other names: None Allocated
Recommended use: For the control of fleas, ticks and lice on dogs, cats, puppies and kittens. Also controls lice on ornamental caged birds.
Supplier Details: Pharmachem
Unit 6, 70 Fison Ave West
Eagle Farm QLD 4009
Telephone: (07) 3868 0333
Facsimile: (07) 3868 0344
Contact Person: Mr Gray Boston
Emergency Telephone: (07) 3630 1654

SECTION 2 HAZARDS IDENTIFICATION

This product is classified as not hazardous according to the classification criteria of NOHSC:1008(2004), Approved Criteria For Classifying Hazardous Substances and the National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]:

HEALTH HAZARD INFORMATION

SKIN: Contact with skin may result in a mild skin irritation
EYES: Contamination of eyes may result in physical irritation
INGESTION: Harmful if swallowed
INHALED: Excess inhalation may cause breathing discomfort

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	Cas No.	Proportion (% w/w)
Pyrethrins	8003-34-7	1
Piperonyl Butoxide	51-03-6	1.8
N-Octyl Bicycloheptene Dicarboximide	113-48-4	3
Proprietary inert excipients	N/A	<20
Water	N/A	<75

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*)

FIRST AID

INGESTION: If poisoning occurs, contact a Doctor or Poisons Information Centre. If swallowed and if more than 15 minutes from a hospital, induce vomiting, preferably using Ipecac Syrup A.P.F.

EYES: Irrigate with copious quantities of water for 15 minutes. Seek medical assistance if effect persists.

SKIN: Wash affected parts with soap and water.

INHALED: Remove affected person to a well ventilated area with fresh air.

ADVICE TO DOCTOR: Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Product is considered to be non combustible.

Suitable extinguishing media: Use media appropriate to the surrounding fire

Hazards from combustion products: None known

Special protective precautions and equipment for fire fighters: Use precautions and equipment appropriate for the surrounding fire.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Emergency procedures:
Slippery when spilt. Avoid accidents, clean up immediately.

Methods and materials for containment and clean up:
Use absorbent (soil or sand, inert material, vermiculite). Collect and seal in containers for disposal. Wash area down with detergent and excess water.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling:

Wash hands after use.

Conditions for safe storage, including any incompatibilities

The APVMA has approved the following storage instructions:

Store below 30° c (Room Temperature) in the original container out of direct sunlight.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

National exposure standards:	None set
Biological limit values:	None set
Engineering controls:	Use with adequate ventilation
Personal protective equipment::	Wear standard safety equipment, including rubber gloves and goggles

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	A brown, transparent liquid incorporating a pleasant perfume.
Solubility:	Soluble in water.

SECTION 10 STABILITY AND REACTIVITY

Chemical stability:	Stable
Conditions to avoid:	None known
Incompatible materials:	Strong acids and alkalies
Hazardous decomposition products:	None known
Hazardous reactions:	None known

SECTION 11 TOXICOLOGICAL INFORMATION

Health effects from the likely routes of exposure

Acute toxicity/irritation studies:

Pyrethrins (58% manufacturing grade):

Ingestion - Slightly toxic

Oral LD50 (Rat) 2,370 mg/kg (58% pyrethrins)

Dermal - Slightly toxic

Dermal LD50 (Rabbit) >2,000 mg/kg (58% pyrethrins)

Inhalation - Slightly toxic

Inhalation LC50 3.4 mg/L (58% pyrethrins)

Eye Contact: Minimally irritating (Rabbit)

Skin Contact: Minimally irritating (Rabbit)

Piperonyl Butoxide (technical grade):

Acute toxicity/irritation studies:

Ingestion - Minimally toxic

Oral LD50 (Rat) 4,570 mg/kg – males

7,220 mg/kg - females

Dermal - Slightly toxic

Dermal LD50 (Rabbit) >2,000 mg/kg

Inhalation - Slightly toxic

Inhalation - LC50 >5.9 mg/L

Eye Contact: Slightly irritating (Rabbit)

Skin Contact: Minimally irritating (Rabbit)

N-Octyl bicycloheptene dicarboximide (technical grade):

Acute toxicity/irritation studies:

Ingestion - Minimally toxic

Oral LD50 (Rat) 4,990 mg/kg – males

4,220 mg/kg - females

Dermal - Slightly toxic

Dermal LD50 (Rabbit) >2,000 mg/kg

Inhalation - Slightly toxic

Inhalation - LC50 >4.08 mg/L

Eye Contact - Slightly irritating (Rabbit)

Skin Contact - Minimally irritating (Rabbit)

SECTION 12 ECOLOGICAL INFORMATION

The following environmental warning has been approved by the APVMA:
Poisonous to fish and crustacea. Do not contaminate ponds streams or aquaria.

Pyrethrins

Rainbow trout 96-hour LC50 5.2 $\mu\text{g/L}$
Bluegill sunfish 96-hour LC50 10 $\mu\text{g/L}$
Honeybee Acute 0.022 $\mu\text{g/bee}$
Daphnia magna 48-hour LC50 12 $\mu\text{g/L}$
Bobwhite Quail Oral LD50 >2,000 mg/kg
Bobwhite 5 day dietary LC50 >5,620 ppm
Mallard 5 day dietary LC50 >5,620 ppm

Piperonyl Butoxide:

Rainbow Trout 96-hour LC50 6.12 ppm
Bluegill Sunfish 96-hour LC50 5.37 ppm
Daphnia Magna 48-hour LC50 0.51 ppm
Honeybee Acute >25 $\mu\text{g/bee}$
Bobwhite Quail Oral LD50 >2,250 mg/kg
Bobwhite 5 day dietary LC50 >5,620 ppm
Mallard 5 day dietary LC50 >5,620 ppm

N-Octyl bicycloheptene dicarboximide: Not available.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal methods and containers:

The following disposal directions have been approved by the APVMA.
Dispose of container by wrapping in paper then put in plastic bag and place in garbage.

Special precautions for landfill or incineration:

Dispose of in accordance with local government requirements.

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

Date of last revision of the MSDS: April 07

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, March 2005
2. Approved Criteria For Classifying Hazardous Substances, NOHSC:1008 (2004)
3. National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011 (2003)]
4. AICS (Australian Inventory of Chemical Substances)
5. APVMA Manual of Requirements and Guidelines for Agricultural Chemicals, October 2005
6. ADI [Acceptable Daily Intake] List, Commonwealth Department of Health & Aged Care, TGA, August 2001
7. The Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) 6th Edition
8. Hazardous Substances Information System, Version 1.2.2 (September 2004), Last Updated – November 2005, NOHSC

All information contained in this Material Safety Data Sheet is as accurate and up to date as possible. Since Pharmachem cannot anticipate or control the conditions under which this information may be used, each user should review the information in the specific context of the intended application. Pharmachem will not be responsible for damages of any nature resulting from use of or reliance upon the information. No expressed or implied warranties are given other than those implied as mandatory by Commonwealth State or Territory legislation.