

## SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product (material) name: Pharmacemical Supershield  
Other names: None allocated  
Recommended use: Repels Flies, Mosquitoes, Midges and Sandflies on horses, cattle, pigs and dogs  
Supplier Details: Pharmacem  
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 2<sup>nd</sup> Edition [NOHSC:2011(2003)]:

Although this product contains active constituents that can be both harmful and toxic, the concentrations present are significantly less than those listed for toxic substances in the above document.

### HEALTH HAZARD INFORMATION

#### HEALTH EFFECTS

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) |
|-------------------------------------|-----------|--------------------|
| N,N-Diethyl-N-Toluamide             | 134-62-3  | 2                  |
| Di-N-Propyl-Iso-Cinchomeronate      | 136-45-8  | 2                  |
| Citronella Oil                      | 8000-29-1 | 0.5                |
| Pyrethrins                          | 8003-34-7 | 0.2                |
| Piperonyl Butoxide                  | 51-03-6   | 0.8                |
| N-Octylbicycloheptene Dicarboximide | 113-48-4  | 1                  |
| Proprietary inert excipients        | N/A       | 3.5                |
| Water                               | N/A       | 90                 |

### 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*)

**INGESTION:** If poisoning occurs contact a doctor or Poisons Information Centre  
**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 effected person to a well ventilated area with fresh air

### SECTION 5 FIRE FIGHTING MEASURES

Product is non combustible

Suitable extinguishing media: Use media suitable for the surrounding fire.  
Hazards from combustion products: None known  
Special protective precautions and equipment for fire fighters: Use precautions and equipment suitable for the surrounding fire.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

Emergency procedures

Slippery when wet. 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

The following Safety Directions have been approved for this product by the APVMA.

Wash hands after use. Avoid contact with eyes and avoid breathing its spray mist.

Conditions for safe storage, including any incompatibilities:

Store below 30°C (Room Temperature). Store in original tightly closed container, out of direct sunlight.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

National exposure standards:

Pyrethrins – TWA – 5 mg/m<sup>3</sup>

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:

Brown, clear liquid incorporating a perfume

## SECTION 10 STABILITY AND REACTIVITY

Chemical stability:

Stable

Conditions to avoid:

None known

Incompatible materials:

Strong oxidizing agents

Hazardous decomposition products:

None known

Hazardous reactions:

None known

## SECTION 11 TOXICOLOGICAL INFORMATION

Health effects from the likely routes of exposure. Information on individual active constituents has been provided below where available

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)

N,N-diethyl-N-toluamide

Toxic if swallowed, inhaled or absorbed through the skin. May cause systemic effects.

Experimental reproductive effects. Mutagenic data. May cause CNS disturbances.

Toxicity data

|                  |                          |
|------------------|--------------------------|
| TDLO Skin-Human  | 35 mg kg <sup>-1</sup>   |
| LDLO Oral-Woman  | 950 mg kg <sup>-1</sup>  |
| LDLO Oral-Man    | 679 mg kg <sup>-1</sup>  |
| LD50 Oral-Rat    | 1950 mg kg <sup>-1</sup> |
| LD50 Skin-Rabbit | 3180 mg kg <sup>-1</sup> |

### SECTION 12 ECOLOGICAL INFORMATION

Product contains pyrethrins which are poisonous to fish and crustacea. Do not contaminate dams, streams, waterways or aquaria.

|                               |              |
|-------------------------------|--------------|
| Pyrethrins                    |              |
| Rainbow trout 96-hour LC50    | 5.2 µg/L     |
| Bluegill sunfish 96-hour LC50 | 10 µg/L      |
| Honeybee Acute                | 0.022 µg/bee |
| Daphnia magna 48-hour LC50    | 12 µg/L      |

### SECTION 13 DISPOSAL CONSIDERATIONS

Disposal methods and containers:

The following disposal directions have been approved by the APVMA.

Do not re-use container. Dispose of container and sprayer by wrapping in paper and place in garbage.

Special precautions for landfill or incineration:

Seek advice from local government authority before disposing of product in municipal landfill.

### 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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B/Hrs Phone (07) 3868 0333 A/Hrs (07) 3630 1654

### 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 2<sup>nd</sup> 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) 6<sup>th</sup> 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.