



## MATERIAL SAFETY DATA SHEET

Non hazardous according to criteria of NOHSC Australia.

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name: **SEARLES ANT, SPIDER & COCKROACH KILLER**

**Use:** For the control of ants, bed bugs, clothes moths, cockroaches, fleas, spiders and silverfish Indoors and Outdoors in domestic and commercial premises.

**Supplier:** J.C. & A.T. Searle Pty Ltd  
**ABN:** 14 002 898 893  
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Kilcoy Queensland 4515  
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**Email:** searlem@searle.com.au  
**Website:** www.searles.com.au

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

| CHEMICAL               | ENTITY CAS NO. | PROPORTION |
|------------------------|----------------|------------|
| Permethrin 25:75       | 52645-53-1     | 3.0 g/L    |
| Non hazardous material | -              | < 10.0 g/L |
| Water                  | 7732-18-5      | Balance    |
|                        |                | <hr/> 100% |

### 3. HAZARDS IDENTIFICATION

Based on available information, this material is not classified as hazardous according to criteria of NOHSC Australia.

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

**Poisons Schedule (Aust):** Not applicable

## 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126).

**Inhalation:** 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. Seek medical advice if effects persist.

**Skin contact:** If skin contact occurs, remove contaminated clothing and wash skin thoroughly. If swelling, redness, blistering or irritation occurs seek medical assistance.

**Eye contact:** If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

**Ingestion:** Rinse mouth with water. Give plenty of water to drink. If vomiting occurs give further water. Seek medical advice.

**Notes to physician:** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Specific hazards:** Non-combustible material.

**Fire fighting further advice:** Not combustible, however following evaporation of aqueous component residual material can burn if ignited. On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

**Suitable extinguishing media:** Not combustible, however, if material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage.

### LARGE SPILLS

Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

## 7. HANDLING AND STORAGE

**Handling:** Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

**Storage:** Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### National occupational exposure limits

No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC Australia).

However for:

|             | TWA |       | STEL |       | CARCINOGEN<br>CATEGORY | NOTICES |
|-------------|-----|-------|------|-------|------------------------|---------|
|             | ppm | mg/m3 | ppm  | mg/m3 |                        |         |
| Permethrin* | -   | 10    | -    | -     | -                      | -       |

\* Suppliers recommendation.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

**Engineering measures:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Natural ventilation should be adequate under normal use conditions. Keep container closed when not in use.

**Personal protection equipment:** OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES.

Wear overalls, safety glasses and impervious gloves. Available information suggests that gloves made from polyvinyl chloride (PVC) should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. If risk of inhalation of exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** Amber coloured liquid.

|  |             |
|--|-------------|
| <b>Solubility:</b>                           | Miscible    |
| <b>Specific Gravity (20 °C):</b>             | 1.01-1.02   |
| <b>Relative Vapour Density (air=1):</b>      | N Av        |
| <b>Vapour Pressure (20 °C):</b>              | N Av        |
| <b>Flash Point:</b>                          | N App       |
| <b>Flammability Limits (%):</b>              | N App       |
| <b>Autoignition Temperature (°C):</b>        | N App       |
| <b>% Volatile by Volume:</b>                 | N App       |
| <b>Melting Point/Range (°C):</b>             | 0 approx.   |
| <b>Boiling Point/Range (°C):</b>             | 100 approx. |
| <b>Decomposition Point (°C):</b>             | N App       |
| <b>Sublimation Point (°C):</b>               | N App       |
| <b>pH:</b>                                   | N Av        |
| <b>Viscosity:</b>                            | N Av        |
| <b>Evaporation Rate (n-Butyl acetate=1):</b> | N Av        |

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Stability:** This material is thermally unstable.

This material is chemically stable.

This material will undergo autoxidation.

This material is light sensitive.

This material can undergo polymerisation.

No information available.

Reacts violently with

Reacts with

Incompatible with

Compatible with

and alloys of these metals producing flammable hydrogen gas.

## 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:

### Acute Effects

**Inhalation:** Material may be irritant to mucous membranes and respiratory tract.

**Skin contact:** Contact with skin may result in irritation.

**Eye contact:** May be an eye irritant.

**Ingestion:** Swallowing can result in nausea, vomiting, abdominal pain and irritation of the gastrointestinal tract.

**Long Term Effects:** No information available for product.

### Acute toxicity / Chronic toxicity

No LD50 data available for the product. However, for the constituent,

For the active Permethrin: (1)

|  |                   |
|--|-------------------|
| Oral Median Lethal Dose (rat, male):   | 806 mg/kg         |
| Oral Median Lethal Dose (rat, female): | 814 mg/kg         |
| Dermal Median Lethal Dose (rabbit):    | >2000 mg/kg       |
| Median Lethal Concentration (rat):     | 2.3 mg/L/4 hours  |
| Eye irritant (rabbit):                 | Mildly irritating |
| Skin irritant (rat):                   | Mildly irritating |

A moderate skin sensitiser

Short-term tests have shown that permethrin is unlikely to be genotoxic.

Animal studies have shown that repeated or prolonged doses produce no significant effects.

ADI (Acceptable Daily Intake) for humans is 0.05 mg/kg/day. (3)

## 12. ECOLOGICAL INFORMATION

No environmental impact data found for this product, however:

For the active constituent permethrin: (2)

### AQUATIC TOXICITY:

Very toxic to aquatic organisms.

|                                |           |
|--------------------------------|-----------|
| 96 hr LC50 (rainbow trout):    | 2.5 ug/L. |
| 48 hr LC50 (rainbow trout):    | 5.4 ug/L. |
| 48 hr LC50 (bluegill sunfish): | 1.8 ug/L. |
| 48 hr LC50 (Daphnia magna):    | 0.6 ug/L. |

### TERRESTRIAL TOXICITY:

Toxic to bees

|                             |                |
|-----------------------------|----------------|
| 24hr Oral LD50 (bee):       | 0.098 ug/bee.  |
| 24hr Topical LD50 (bee):    | 0.029 ug/bee.  |
| Oral LD50 (chicken):        | > 3,000 mg/kg. |
| Oral LD50 (Japanese quail): | >13,500 mg/kg. |

## 13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority.

## 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.

### Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

## Air Transport

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

## 15. REGULATORY INFORMATION

Based on available information, this material is not classified as hazardous according to criteria of NOHSC Australia.

**Poisons Schedule (Aust):** Not applicable

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

## 16. OTHER INFORMATION

### Literary reference

1. Supplier Product Safety Data.
2. In "The Pesticide Manual" Ed. Cd Tomlin. British Crop Protection Council, 1997.

Reason(s) For Issue: Overall Review

Material Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

### CONTACT POINTS:

| ORGANIZATION               | LOCATION     | TELEPHONE      | ASK FOR           |
|----------------------------|--------------|----------------|-------------------|
| J.C. & A.T. Searle Pty Ltd | Kilcoy       | (07) 5497 2022 | Technical Officer |
| Poisons Information Centre | Brisbane QLD | 13 11 26       |                   |

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