

## Safety Data Sheet

According to Australian CoP Preparation of Safety Data Sheets for Hazardous Chemicals, Feb 2016 and New Zealand HSNO CoP 8-1 09-06



### Raid Flying Insect Killer Odourless

Version 1.1

Print Date 01.08.2017

Revision Date 18.05.2017

SDS Number 350000011817

#### 1. PRODUCT AND COMPANY IDENTIFICATION

- Product identifier** : **Raid Flying Insect Killer Odourless**
- Other means of Identification** : 350000011817
- Recommended use** : Insecticide
- Restrictions on use** : Use only as directed on label
- Australia** : S.C. Johnson & Son Pty. Ltd.  
ABN 71. 000 021 009  
160 Epping Road, Lane Cove, N.S.W. 2066. Australia  
Telephone: +61 2 9428 9111
- New Zealand** : S.C. Johnson & Son Pty. Ltd  
79 Queen Street  
Auckland 1010  
New Zealand  
Telephone: +64 9 573 2850
- Emergency telephone numbers** : Australia: (8:30am – 17:30pm Mon-Thurs, 8:30am – 17:00pm Fri AEST)  
+61 2 9428 9111  
New Zealand: (9:00am – 14:00pm Mon-Fri NZDT) +64 9 573 2850
- Poison Information Contacts** : Australia: 13 11 26  
New Zealand : 0800 764 766 or 0800 POISON

#### 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

##### Statement of Hazardous Nature (Australia)

##### Globally Harmonized System (GHS) Classification

Hazard classification	Hazard category	Hazards identification
Aerosol	Category 1	Extremely flammable aerosol.
Chronic aquatic toxicity	Category 2 *	Toxic to aquatic life with long lasting effects.

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\* Classification not adopted by Australia

^ Classification only triggered in Australia if 'Schedule 6 of WHS Regulations' met. Contact SCJ Consumer Advice number listed on product label if required.

#### Statement of Hazardous Nature (New Zealand)

HSNO Classification (NZ): : 2.1.2A  
9.1B, 9.4B

#### Labelling - Australia \*\*

##### Hazard symbols



Flame  
Environment

**Signal word**  
Danger

##### **Hazard statements**

(H222) Extremely flammable aerosol.  
(H229) Pressurised container: May burst if heated.  
(H411) Toxic to aquatic life with long lasting effects.

##### **Precautionary statements**

(P101) If medical advice is needed, have product container or label at hand.  
(P102) Keep out of reach of children.  
(P410 + P412) Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.  
(P501) Dispose of contents/ container to an approved incineration plant.  
(P210) Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
(P211) Do not spray on an open flame or other ignition source.  
(P251) Pressurized container: Do not pierce or burn, even after use.

\*\* The information supplied is designed for products predominately used in workplaces; whereas consumer product labels comply with the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) labelling requirements, under The Australian CoP Labelling of Workplace Hazardous Chemicals (March 2015).

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#### Labelling- New Zealand



Flame  
Environment

**Signal word**  
Danger

#### Hazard statements

(H222) Extremely flammable aerosol.  
(H229) Pressurised container: May burst if heated.  
(H411) Toxic to aquatic life with long lasting effects.  
(H442) Toxic to terrestrial invertebrates.

#### Precautionary statements

(P101) If medical advice is needed, have product container or label at hand.  
(P102) Keep out of reach of children.  
(P410 + P412) Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.  
(P501) Dispose of contents/ container to an approved incineration plant.  
(P210) Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
(P211) Do not spray on an open flame or other ignition source.  
(P251) Pressurized container: Do not pierce or burn, even after use.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No.	Weight percent
Tetramethrin	7696-12-0	0.10 - 0.50
Sodium nitrite	7632-00-0	0.10 - 0.50
d-Phenothrin	188023-86-1	0.00 - 0.10
d-cis, trans Allethrin	231937-89-6	0.00 - 0.10
Other non-hazardous ingredients	various	Balance to 100

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#### 4. FIRST AID MEASURES

##### Description of first aid measures

**Eye contact** : No special requirements

**Skin contact** : No special requirements

**Inhalation** : No special requirements.

**Ingestion** : No special requirements

##### Most important symptoms and effects, both acute and delayed

**Indication of any immediate medical attention and special treatment needed** : See Description of first aid measures unless otherwise stated.

#### 5. FIREFIGHTING MEASURES

**Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Specific hazards arising from substance** : Aerosol Product - Containers may rocket or explode in heat of fire. Do not allow run-off from fire fighting to enter drains or water courses.

**Special protective equipment and precautions for fire fighters** : Fight fire from maximum distance or protected area. Cool and use caution when approaching or handling fire-exposed containers. Wear full protective clothing and positive pressure self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions,** : Remove all sources of ignition.

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**protective equipment and emergency procedures**

Wear personal protective equipment.  
Wash thoroughly after handling.

**Environmental precautions**

: Do not flush into surface water or sanitary sewer system.  
Use appropriate containment to avoid environmental contamination.  
Outside of normal use, avoid release to the environment.

**Methods and materials for containment and cleaning up**

: If damage occurs to aerosol can:  
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).  
Use only non-sparking equipment.  
Dike large spills.  
Clean residue from spill site.

## 7. HANDLING AND STORAGE

**Handling**

**Precautions for safe handling**

: Avoid contact with skin, eyes and clothing.  
Do not enter places where used or stored until adequately ventilated.  
For personal protection see section 8.  
Use only as directed.  
KEEP OUT OF REACH OF CHILDREN AND PETS.  
Pressurized container.  
Do not pierce or burn, even after use.

**Advice on protection against fire and explosion**

: Keep away from sources of ignition - No smoking.  
Do not spray on an open flame or other ignition source.

**Storage**

**Requirements for storage areas and containers**

: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.  
Keep away from food, drink and animal feedingstuffs.  
Keep in a dry, cool and well-ventilated place.

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Control Parameters

ACGIH or OSHA exposure limits have not been established for this product or reportable ingredients unless noted in the table above.

ACGIH or OSHA exposure limits have not been established for this product or reportable ingredients unless noted in the table above.

##### Personal protective equipment

- Respiratory protection** : Do not spray in enclosed areas.
- Hand protection** : No special requirements.
- Eye protection** : No special requirements.
- Skin and body protection** : No special requirements.
- Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form** : aerosol
- Color** : colourless
- Odor** : characteristic
- Odour Threshold** :
- pH** : No data available
- Melting point/freezing point** :  
**Initial boiling point and boiling range** :

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**Flash point** : < 23 °C  
< 73.4 °F

**Evaporation rate** :

**Flammability (solid, gas)** :

**Upper/lower flammability or  
explosive limits** :

**Vapour pressure** : Not applicable

**Vapour density** :

**Relative density** : 0.756 g/cm<sup>3</sup> at 20 °C

**Solubility(ies)** : partly miscible

**Partition coefficient: n-  
octanol/water** :

**Auto-ignition temperature** :

**Decomposition temperature** :

**Viscosity, dynamic** :

**Viscosity, kinematic** : No data available

**Oxidizing properties** :

**Other information** : None identified :

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#### 10. STABILITY AND REACTIVITY

**Reactivity** : No dangerous reaction known under conditions of normal use.

**Chemical stability** : No decomposition if stored normally.

**Possibility of hazardous reactions** : Stable under recommended storage conditions.

**Conditions to avoid** : Heat, flames and sparks.

**Incompatible materials** : Strong oxidizing agents  
None known.

**Hazardous decomposition products** : Thermal decomposition can lead to release of irritating gases and vapours.

#### 11. TOXICOLOGICAL INFORMATION

**Acute oral toxicity** : LD50 > 5000 mg/kg

**Acute inhalation toxicity** : LC50 > 5.1 mg/L

**Acute dermal toxicity** : LD50 > 5000 mg/kg

GHS Properties	Classification	Routes of entry
Acute toxicity	No classification proposed	Oral
Acute toxicity	No classification proposed	Dermal
Acute toxicity	No classification proposed	Inhalation - Dust and Mist
Acute toxicity	No classification proposed	Inhalation - Vapour



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### Raid Flying Insect Killer Odourless

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Acute toxicity	No classification proposed	Inhalation - Gas
Skin corrosion/irritation	No classification proposed	-
Serious eye damage/eye irritation	No classification proposed	-
Skin sensitisation <sup>^</sup>	No classification proposed	-
Respiratory sensitisation <sup>^</sup>	No classification proposed	-
Germ cell mutagenicity	No classification proposed	-
Carcinogenicity	No classification proposed	-
Reproductive toxicity	No classification proposed	-
Specific target organ toxicity - single exposure	No classification proposed	-
Specific target organ toxicity - repeated exposure	No classification proposed	-
Aspiration hazard	No classification proposed	-

**Aggravated Medical Condition** : None known.

\* *Classification not adopted by Australia*

<sup>^</sup> *Classification only triggered in Australia if 'Schedule 6 of WHS Regulations' met. Contact SCJ Consumer Advice number listed on product label if required.*

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## 12. ECOLOGICAL INFORMATION

**Product** : The product itself has not been tested.

### Toxicity

The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

### Toxicity to fish

Components	End point	Species	Value	Exposure time
Tetramethrin	LC50	Oncorhynchus mykiss (rainbow trout)	0.0037 mg/l	96 h
Sodium nitrite	flow-through test LC50 NOEC	Oncorhynchus mykiss (rainbow trout)	0.54 mg/l	96 h
		Cyprinus carpio (Carp)	21 mg/l	30 d
d-Phenothrin	LC50	Oncorhynchus mykiss (rainbow trout)	0.0027 mg/l	96 h
	NOEC	Oncorhynchus mykiss (rainbow trout)	> 0.0011 mg/l	90 d
d-cis, trans Allethrin	LC50	Danio rerio (zebra fish)	0.0708 mg/l	96 h

### Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Tetramethrin	EC50	Daphnia magna (Water flea)	0.0110 mg/l	48 h
Sodium nitrite	static test EC50 NOEC	Daphnia magna (Water flea)	15.4 mg/l	48 h
		Penaeus monodon	2 mg/l	80 d
d-Phenothrin	EC50	Daphnia (water flea)	0.0043 mg/l	48 h

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	NOEC	Daphnia (water flea)	0.00047 mg/l	21 d
d-cis, trans Allethrin	EC50	Daphnia magna (Water flea)	0.061 mg/l	48 h

#### Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
Tetramethrin	EC50	Algae	> 0.94 mg/l	72 h
Sodium nitrite	static test EC50	Desmodesmus subspicatus (green algae)	> 100 mg/l	72 h
d-Phenothrin	EbC50	Algae	> 0.011 mg/l	72 h
d-cis, trans Allethrin	EC50	Pseudokirchneriella subcapitata (microalgae)	1.1 mg/l	72 h

#### Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Tetramethrin	No data available		Not readily biodegradable.
Sodium nitrite	No data available		
d-Phenothrin	1 %	28 d	Not readily biodegradable.
d-cis, trans Allethrin	No data available		Not readily biodegradable.

#### Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
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Tetramethrin	No data available	4.58
Sodium nitrite		-3.7
d-Phenothrin	2,506 - 3,192 Measured	6.8
d-cis, trans Allethrin	20	> 3.07

#### Mobility

Component	End point	Value
Tetramethrin		-
Sodium nitrite	No data available	
d-Phenothrin	Koc	125893
d-cis, trans Allethrin	Koc	9500

#### PBT and vPvB assessment

Component	Results
Tetramethrin	Not fulfilling PBT and vPvB criteria
Sodium nitrite	Not fulfilling PBT and vPvB criteria
d-Phenothrin	Not fulfilling PBT and vPvB criteria
d-cis, trans Allethrin	Not fulfilling PBT and vPvB criteria

**Other adverse effects** : None known.

### 13. DISPOSAL CONSIDERATIONS

- Safe handling and disposal methods : PESTICIDAL WASTE:  
For disposal information, please read and follow Disposal instructions on the pesticide label.  
Consumer may discard empty container in trash, or recycle where facilities exist.
- Disposal of any : Do not re-use empty containers.

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contaminated packaging

#### 14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

	Land transport <sup>§</sup>	Sea transport	Air transport
<b>UN number</b>	1950	1950	1950
<b>UN proper shipping name</b>	Aerosols, Flammable (Tetramethrin, phenothrin)	Aerosols, Flammable (Tetramethrin, phenothrin)	Aerosols, Flammable (Tetramethrin, phenothrin)
<b>Transport hazard class(es)</b>	2.1	2	2.1
<b>Packing group</b>	-	-	-
<b>Environmental hazards</b>	-	Marine pollutant	-
<b>Special precautions for user</b>	Limited quantities derogation may be applicable to this product, please check transport documents.	Limited quantities derogation may be applicable to this product, please check transport documents.	Limited quantities derogation may be applicable to this product, please check transport documents.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Product not transported as bulk.	Product not transported as bulk.	Product not transported as bulk.

<sup>§</sup> **Land transport:** Classification based on UN Recommendations on the Transport of Dangerous Goods. Local regulations under the Australian Dangerous Goods Code (ADG) and/or the New Zealand Land Transport Rule Dangerous Goods should be applied prior to transportation of goods.

#### 15. REGULATORY INFORMATION

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**HSNO Classification (NZ):** : 2.1.2A  
9.1B, 9.4B

**HSNO Approval Number (NZ):** : HSR000318

#### 16. OTHER INFORMATION

Revision Date: 18.05.2017

##### Key abbreviations or acronyms used

ADG: The Australian Code for the Transport of Dangerous Goods by Road and Rail

NZ LTR: The New Zealand Land Transport Rule: Dangerous Goods 2005

HSNO: Hazardous Substances and New Organisms Act 1996 (New Zealand)

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods

SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons (Australia)

##### Further information

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