

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 2.0

Print Date 28.04.2022

Revision Date 13.02.2022

SDS Number 350000011817

GEN_SOF Number 39112

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 2	Flammable aerosol.
Long-term (chronic) aquatic hazard	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
Warning

Hazard statements

(H223) 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) Pressurised 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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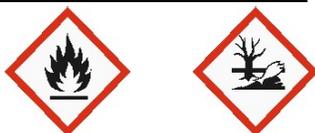
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Labelling- New Zealand



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
Butane	106-97-8	10.00 - 20.00
Alkanes, C14-16	90622-46-1	5.00 - 10.00
Propane	74-98-6	5.00 - 10.00
Tetramethrin	7696-12-0	0.10 - 0.50
Sodium nitrite	7632-00-0	0.10 - 0.50
D-Phenothrin	26002-80-2	0.00 - 0.10
D-Allethrin	584-79-2	0.00 - 0.10

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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.

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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures** : Remove all sources of ignition.
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.

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Keep away from food, drink and animal feedingstuffs.
Keep in a dry, cool and well-ventilated place.

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.

Components	CAS-No.	mg/m3	ppm	Non-standard units	Basis
Butane	106-97-8	1,900 mg/m3	800 ppm	-	NZ_WELTWA

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** : odourless
- Odour Threshold** : Test not applicable for this product type

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pH	: 8.0 at (21 °C)
Melting point/freezing point	: Test not applicable for this product type
Initial boiling point and boiling range	: Test not applicable for this product type
Flash point	: 66 °C 150.8 °F Method: Tag Closed Cup (TCC) liquid < -70 °C < -94 °F Propellant
Evaporation rate	: Test not applicable for this product type
Flammability (solid, gas)	: Flammable aerosol.
Upper/lower flammability or explosive limits	: Test not applicable for this product type
Vapour pressure	: Test not applicable for this product type
Vapour density	: Test not applicable for this product type
Relative density	: 0.756 g/cm ³ at 20 °C
Solubility(ies)	: partly miscible
Partition coefficient: n-octanol/water	: Test not applicable for this product type

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Auto-ignition temperature : Test not applicable for this product type

Decomposition temperature : Test not applicable for this product type

Viscosity, dynamic : Test not applicable for this product type

Viscosity, kinematic : Test not applicable for this product type

Oxidizing properties : Test not applicable for this product type

Other information : None identified :

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 : If accidental mixing occurs and toxic gas is formed, exit area immediately. Do not return until well ventilated.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong oxidizing agents
Do not mix with bleach or any other household cleaners.
Strong bases
None known.

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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
Acute toxicity	No classification proposed	Inhalation - Gas
Skin corrosion/irritation	No classification proposed	-
Serious eye damage/eye irritation	No classification proposed	-
Skin sensitisation [^]	No classification proposed	-
Respiratory sensitisation [^]	No classification proposed	-
Germ cell mutagenicity	No classification proposed	-
Carcinogenicity	No classification proposed	-

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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*

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

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
Butane	LC50 QSAR	Fish	27.98 mg/l	96 h
Alkanes, C14-16	semi-static with one renewal at 48 hours LL50	Scophthalmus maximus	> 100 mg/l	96 h

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Propane	LC50	Fish	27.98 mg/l	96 h
Tetramethrin	LC50	Oncorhynchus mykiss (rainbow trout)	0.0037 mg/l	96 h
Sodium nitrite	flow-through test LC50 NOEC	Oncorhynchus mykiss (rainbow trout) Cyprinus carpio (Carp)	0.54 mg/l 21 mg/l	96 h 30 d
D-Phenothrin	LC50 NOEC	Oncorhynchus mykiss (rainbow trout) Oncorhynchus mykiss (rainbow trout)	0.0027 mg/l 0.0011 mg/l	96 h
D-Allethrin	LC50	Danio rerio (zebra fish)	0.00708 mg/l	96 h

Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Butane	EC50 QSAR	Daphnid	14.22 mg/l	48 h
Alkanes, C14-16	LL50 No data available		> 100 mg/l	48 h
Propane	LC50	Daphnid	14.22 mg/l	48 h
Tetramethrin	EC50	Daphnia magna (Water flea)	0.0110 mg/l	48 h
Sodium nitrite	static test EC50 NOEC	Daphnia magna (Water flea) Penaeus monodon	15.4 mg/l 2 mg/l	48 h 80 d

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D-Phenothrin	EC50	Daphnia magna (Water flea)	0.0043 mg/l	48 h
	NOEC	Daphnia magna	0.00047 mg/l	
D-Allethrin	EC50	Daphnia magna (Water flea)	0.0061 mg/l	48 h

Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
Butane	EC50 QSAR	Green algae	7.71 mg/l	96 h
Alkanes, C14-16	EL50	Skeletonema costatum (marine diatom)	> 100 mg/l	72 h
Propane	No data available			
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	ErC50	Green algae	> 0.011 mg/l	72 h
D-Allethrin	IC50	Desmodesmus subspicatus (green algae)	1.1 mg/l	72 h

Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Butane	100 %	385.5 h	Readily biodegradable.
Alkanes, C14-16	82 %	28 d	Readily biodegradable.

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Propane	70 %	< 10 d	Readily biodegradable.
Tetramethrin	No data available		Not readily biodegradable.
Sodium nitrite	No data available		
D-Phenothrin	No data available		Not readily biodegradable.
D-Allethrin	No data available		Not readily biodegradable.

Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
Butane	No data available	2.89
Alkanes, C14-16	No data available	No data available
Propane	No data available	2.36
Tetramethrin	No data available	4.58
Sodium nitrite	3.16 QSAR	-3.7
D-Phenothrin	No data available	6.01
D-Allethrin	20	

Mobility

Component	End point	Value
Butane	No data available	
Alkanes, C14-16	No data available	
Propane	No data available	
Tetramethrin	Koc	2094
Sodium nitrite	No data available	
D-Phenothrin	No data available	
D-Allethrin	Koc	9500

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PBT and vPvB assessment

Component	Results
Butane	Not fulfilling PBT and vPvB criteria
Alkanes, C14-16	Not fulfilling PBT and vPvB criteria
Propane	Not fulfilling PBT and vPvB criteria
Tetramethrin	Not fulfilling PBT and vPvB criteria
Sodium nitrite	Not fulfilling PBT and vPvB criteria
D-Phenothrin	Not fulfilling PBT and vPvB criteria
D-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 contaminated packaging : Do not re-use empty containers.

14. TRANSPORT INFORMATION

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

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	Land transport [§]	Sea transport	Air transport
UN number	1950	1950	1950
UN proper shipping name	Aerosols, Flammable (Tetramethrin, phenothrin)	Aerosols, Flammable (Tetramethrin, phenothrin)	Aerosols, Flammable (Tetramethrin, phenothrin)
Transport hazard class(es)	2.1	2	2.1
Packing group	-	-	-
Environmental hazards	-	Marine pollutant	-
Special precautions for user	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.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Product not transported as bulk.	Product not transported as bulk.	Product not transported as bulk.

[§] **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

Poisons Schedule (Australia): : NOT SCHEDULED

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

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HSNO Approval Number : HSR000318
(NZ):

16. OTHER INFORMATION

Revision Date: 13.02.2022

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

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Prepared by

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