

Safety Data Sheet

According to Australian CoP Preparation of Safety Data Sheets for Hazardous Chemicals, Jul 2020 and New Zealand HSNO



RAID ONE SHOT MULTI PURPOSE INSECT KILLER aerosol (APVMA No.85024)

Version 2.1

Print Date 16.03.2023

Revision Date 16.03.2023

SDS Number 350000015953

GEN_SOF Number 22844

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier	: RAID ONE SHOT MULTI PURPOSE INSECT KILLER aerosol (APVMA No.85024)
Other means of Identification	: 350000015953
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.
Skin irritation	Category 3	Causes mild skin irritation.

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Skin sensitisation [^]	Category 1	May cause an allergic skin reaction.
Short-term (acute) aquatic hazard	Category 1 *	Very toxic to aquatic life.
Long-term (chronic) aquatic hazard	Category 1 *	Very toxic to aquatic life with long lasting effects.

* 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
9.1A, 9.4A

Labelling - Australia **

Hazard symbols



Flame
Exclamation mark
Environment

Signal word
Danger

Hazard statements

(H222) Extremely flammable aerosol.
(H229) Pressurised container: May burst if heated.
(H316) Causes mild skin irritation.
(H317) May cause an allergic skin reaction.

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(H410) Very 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.

(P302 + P352) IF ON SKIN: Wash with plenty of soap and water.

(P333 + P313) If skin irritation or rash occurs: Get medical advice/ attention.

(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.

(P280) Wear protective gloves.

** 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).

Labelling- New Zealand

Refer Australian labelling above.

Signal word

Danger

Hazard statements

(H222) Extremely flammable aerosol.

(H229) Pressurised container: May burst if heated.

(H410) Very toxic to aquatic life with long lasting effects.

(H441) Very 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.

(P103) Read label before use.

(P391) Collect spillage.

(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 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.

(P273) Avoid release to the environment.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No.	Weight percent
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	64742-48-9	40.00 - 50.00
d-Limonene	5989-27-5	1.00 - 5.00
Butylated hydroxytoluene (BHT)	128-37-0	0.10 - 0.50
Tetramethrin	7696-12-0	0.10 - 0.50
d-Phenothrin	188023-86-1	0.10 - 0.50
D-Allethrin	584-79-2	0.10 - 0.50
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	64742-48-9	40.00 - 50.00
Butane	106-97-8	20.00 - 30.00
d-Limonene	5989-27-5	1.00 - 5.00
Butylated hydroxytoluene (BHT)	128-37-0	0.10 - 0.50
Tetramethrin	7696-12-0	0.10 - 0.50
d-Phenothrin	188023-86-1	0.10 - 0.50
D-Allethrin	584-79-2	0.10 - 0.50
Other non-hazardous ingredients	various	Balance to 100

4. FIRST AID MEASURES

Description of first aid measures

Eye contact : No special requirements

Skin contact : Wash off with plenty of water. If skin irritation or rash occurs: Get medical advice/ attention.

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.

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5. FIREFIGHTING MEASURES

- Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific hazards arising from substance** : Do not use a solid water stream as it may scatter and spread fire. 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, 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.

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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.
Contaminated work clothing should not be allowed out of the workplace.
Avoid breathing vapours, mist or gas.

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.

Other data

: The pressure in sealed containers can increase under the influence of heat.
Stable under normal conditions.

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/m ³	ppm	Non-standard units	Basis

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Butane	106-97-8	1,900 mg/m3	800 ppm	-	NZ_WELTWA
Butylated hydroxytoluene (BHT)	128-37-0	10 mg/m3	-	-	NZ_WELTWA

Personal protective equipment

- Respiratory protection** : Do not spray in enclosed areas.
- Hand protection** : Wear suitable gloves.
- 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** : Colorless clear
- Odor** : Citrus
- Odour Threshold** : Test not applicable for this product type
- pH** : Test not applicable for this product type
- Melting point/freezing point** : Test not applicable for this product type
- Initial boiling point and boiling range** : -42 °C
- Flash point** : -80 °C

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-112 °F
Propellant
60 °C
140 °F
liquid

Evaporation rate : Test not applicable for this product type

Flammability (solid, gas) : Sustains combustion

Upper/lower flammability or explosive limits : No data available

Vapour pressure : 8.587 hPa
at 21 °C

Vapour density : 2.415
at 15 °C
(Air = 1.0)

Relative density : 0.639 g/cm³ at 20 °C Calculated

Solubility(ies) : immiscible

Partition coefficient: n-octanol/water : Test not applicable for this product type

Auto-ignition temperature : not auto-flammable

Decomposition temperature : No data available

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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 : 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

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Acute inhalation toxicity : LC50 > 5.1 mg/L

Acute dermal toxicity : LD50 2093 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 irritation	Category 3	-
Serious eye damage/eye irritation	No classification proposed	-
Skin sensitisation [^]	Category 1	-
Respiratory sensitisation [^]	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	No classification proposed	-

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exposure		
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
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	LC50	Pimephales promelas (fathead minnow)	2,200 mg/l	96 h
d-Limonene	semi-static test	Pimephales promelas (fathead minnow)	0.41 mg/l	96 h
	LC50			
Butylated hydroxytoluene (BHT)	semi-static test	Pimephales promelas (fathead minnow)	0.059 mg/l	8 d
	NOEC			
Butylated hydroxytoluene (BHT)	LC50	Danio rerio (zebra fish)	> 0.57 mg/l	96 h
	Measured flow-through test	Oryzias latipes	0.053 mg/l	42 d
	NOEC			
	Measured			

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Tetramethrin	LC50	Oncorhynchus mykiss (rainbow trout)	0.0037 mg/l	96 h
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-Allethrin	LC50	Danio rerio (zebra fish)	0.00708 mg/l	96 h
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	LC50	Pimephales promelas (fathead minnow)	2,200 mg/l	96 h
Butane	LC50 QSAR	Fish	24.11 mg/l	96 h
d-Limonene	semi-static test LC50	Pimephales promelas (fathead minnow)	0.41 mg/l	96 h
	semi-static test NOEC	Pimephales promelas (fathead minnow)	0.059 mg/l	8 d
Butylated hydroxytoluene (BHT)	LC50	Danio rerio (zebra fish)	> 0.57 mg/l	96 h
	Measured flow-through test NOEC Measured	Oryzias latipes	0.053 mg/l	42 d
Tetramethrin	LC50	Oncorhynchus mykiss (rainbow trout)	0.0037 mg/l	96 h
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-Allethrin	LC50	Danio rerio (zebra fish)	0.00708 mg/l	96 h

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Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	EC50	Daphnia magna (Water flea)	< 100 mg/l	48 h
d-Limonene	static test EC50	Daphnia magna (Water flea)	0.36 mg/l	48 h
	semi-static test NOEC Measured	Daphnia magna	0.08 mg/l	21 d
Butylated hydroxytoluene (BHT)	static test EC50 Measured	Daphnia magna (Water flea)	0.48 mg/l	48 h
	semi-static test NOEC	Daphnia magna	0.023 mg/l	21 d
Tetramethrin	EC50	Daphnia magna (Water flea)	0.0110 mg/l	48 h
d-Phenothrin	EC50	Daphnia (water flea)	0.0043 mg/l	48 h
	NOEC	Daphnia (water flea)	0.00047 mg/l	21 d
D-Allethrin	EC50	Daphnia magna (Water flea)	0.0061 mg/l	48 h
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	EC50	Daphnia magna (Water flea)	< 100 mg/l	48 h

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Butane	EC50 QSAR	Daphnid	14.22 mg/l	48 h
d-Limonene	static test EC50	Daphnia magna (Water flea)	0.36 mg/l	48 h
	semi-static test NOEC Measured	Daphnia magna	0.08 mg/l	21 d
Butylated hydroxytoluene (BHT)	static test EC50 Measured	Daphnia magna (Water flea)	0.48 mg/l	48 h
	semi-static test NOEC	Daphnia magna	0.023 mg/l	21 d
Tetramethrin	EC50	Daphnia magna (Water flea)	0.0110 mg/l	48 h
d-Phenothrin	EC50	Daphnia (water flea)	0.0043 mg/l	48 h
	NOEC	Daphnia (water flea)	0.00047 mg/l	21 d
D-Allethrin	EC50	Daphnia magna (Water flea)	0.0061 mg/l	48 h

Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	No data available			

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d-Limonene	static test NOEC	Pseudokirchneriella subcapitata (green algae)	0.05 mg/l	72 h
Butylated hydroxytoluene (BHT)	Static NOEC	Raphidocelis subcapitata (freshwater green alga)	0.24 mg/l	72 h
Tetramethrin	EC50	Algae	> 0.94 mg/l	72 h
d-Phenothrin	EbC50	Algae	> 0.011 mg/l	72 h
D-Allethrin	IC50	Desmodesmus subspicatus (green algae)	1.1 mg/l	72 h
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	No data available			
Butane	EC50 QSAR	Green algae	7.71 mg/l	96 h
d-Limonene	static test NOEC	Pseudokirchneriella subcapitata (green algae)	0.05 mg/l	72 h
Butylated hydroxytoluene (BHT)	Static NOEC	Raphidocelis subcapitata (freshwater green alga)	0.24 mg/l	72 h
Tetramethrin	EC50	Algae	> 0.94 mg/l	72 h
d-Phenothrin	EbC50	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
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	31.3 %	28 d	Not readily biodegradable.

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d-Limonene	80 %	28 d	Readily biodegradable.
Butylated hydroxytoluene (BHT)	4.5 %	28 d	Not readily biodegradable.
Tetramethrin	No data available		Not readily biodegradable.
d-Phenothrin	1 %	28 d	Not readily biodegradable.
D-Allethrin	No data available		Not readily biodegradable.
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	31.3 %	28 d	Not readily biodegradable.
Butane	70 %	< 10 d	Readily biodegradable.
d-Limonene	80 %	28 d	Readily biodegradable.
Butylated hydroxytoluene (BHT)	4.5 %	28 d	Not readily biodegradable.
Tetramethrin	No data available		Not readily biodegradable.
d-Phenothrin	1 %	28 d	Not readily biodegradable.
D-Allethrin	No data available		Not readily biodegradable.

Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	No data available	5.8 - 7.6

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d-Limonene	1,022 QSAR	4.38
Butylated hydroxytoluene (BHT)	598 Calculated	5
Tetramethrin	No data available	4.58
d-Phenothrin	2,506 - 3,192 Measured	6.8
D-Allethrin	20	
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	No data available	5.8 - 7.6
Butane	No data available	2.89
d-Limonene	1,022 QSAR	4.38
Butylated hydroxytoluene (BHT)	598 Calculated	5
Tetramethrin	No data available	4.58
d-Phenothrin	2,506 - 3,192 Measured	6.8
D-Allethrin	20	

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Mobility

Component	End point	Value
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	log Koc	> 1.783 - < 2.36
d-Limonene	Koc	6324
Butylated hydroxytoluene (BHT)	Koc	-23030
Tetramethrin	Koc	2094
d-Phenothrin	Koc	125893
D-Allethrin	Koc	9500
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	log Koc	> 1.783 - < 2.36
Butane	No data available	
d-Limonene	Koc	6324
Butylated hydroxytoluene (BHT)	Koc	-23030
Tetramethrin	Koc	2094
d-Phenothrin	Koc	125893
D-Allethrin	Koc	9500

PBT and vPvB assessment

Component	Results
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	Not fulfilling PBT and vPvB criteria
d-Limonene	Not fulfilling PBT and vPvB criteria
Butylated hydroxytoluene (BHT)	Not fulfilling PBT and vPvB criteria
Tetramethrin	Not fulfilling PBT and vPvB criteria

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d-Phenothrin	Not fulfilling PBT and vPvB criteria
D-Allethrin	Not fulfilling PBT and vPvB criteria
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	Not fulfilling PBT and vPvB criteria
Butane	Not fulfilling PBT and vPvB criteria
d-Limonene	Not fulfilling PBT and vPvB criteria
Butylated hydroxytoluene (BHT)	Not fulfilling PBT and vPvB criteria
Tetramethrin	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.

Safety Data Sheet

According to Australian CoP Preparation of Safety Data Sheets for Hazardous Chemicals, Jul 2020 and New Zealand HSNO



RAID ONE SHOT MULTI PURPOSE INSECT KILLER aerosol (APVMA No.85024)

Version 2.1

Print Date 16.03.2023

Revision Date 16.03.2023

SDS Number 350000015953

GEN_SOF Number 22844

	Land transport [§]	Sea transport	Air transport
UN number	1950	1950	1950
UN proper shipping name	AEROSOLS, flammable	AEROSOLS, flammable	AEROSOLS, flammable
Transport hazard class(es)	2.1	2	2.1
Packing group	-	-	-
Environmental hazards	-	-	-
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
9.1A, 9.4A

Safety Data Sheet

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HSNO Approval Number (NZ): : HSR000323 (Aerosol Category 1, Short-term (acute) aquatic hazard Category 1, Long-term (chronic) aquatic hazard Category 1, hazardous to terrestrial invertebrates (9.4A))

16. OTHER INFORMATION

Revision Date: 16.03.2023

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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