

1. IDENTIFICATION

Product identifier:	MUSKET 240 SC Insecticide
Other means of identification:	Spirotetramt
Other means of identification:	APVMA No. 92474
Recommended use of the chemical and restrictions on use:	Insecticide
Details of manufacturer or supplier:	YIFAN AUSTRALIA PTY LTD. SUITE 19, 1 LAKESIDE ROAD, EASTWOOD NSW 2122, AUSTRALIA Web: www.yifan-au.com Email: sales10@chinayifan.com
Emergency phone number:	Poisons Information Centre 13 11 26 (24 hours)

2. HAZARDS IDENTIFICATION

Classification of the hazardous chemical:	Skin sensitisation – Category 1 Reproductive toxicity – Category 2 Chronic aquatic toxicity – Category 2 Specific target organ toxicity - single exposure – Category 3
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Label elements, including precautionary statements: **SIGNAL WORD: WARNING**

**Hazard Statement(s):**

H317	May cause an allergic skin reaction.
H361	Suspected of damaging fertility or the unborn child.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

P202	Do not handle until all safety precautions have been re understood.
P261	Avoid breathing mist/ spray.
P280	Wear protective gloves/ protective clothing.
P302 + P352	IF ON SKIN: Wash with plenty of water/ soap.
P333 + P313	IF skin irritation or rash occurs: Get medical advice/ att
P304 + P340	IF INHALED: Remove person to fresh air and keep comf for breathing.
P312	Call a POISON CENTER/doctor/physician if you feel unv
P308 + P313	IF exposed or concerned: Get medical advice/ attentio
P362 + P364	Take off contaminated clothing and wash it before reu
P405	Store locked up.
P501	Dispose of contents/container in accordance with local regulation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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Components	CAS Number	Proportion (%)
Spirotetramt	203313-25-1	22.6
Tristyrylphenyl ether phosphate	105362-40-1	≤1.0 – <10.0
Polyoxyethylene lauryl ether	9002-92-0	≤1.0 – <10.0

Other components are not considered hazardous in this formulation and therefore are not required to be disclosed according to the WHS Regulations.

4. FIRST AID MEASURES

Speed in treatment is essential. If poisoning occurs, contact a Poisons Information Centre. Phone Australia 131126 or a doctor. Have this SDS or the label with you.

Description of necessary first aid measures:

General advice:	Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.
Inhalation:	Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.
Skin contact:	Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.
Ingestion:	Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.
First aid facilities:	Eyewash, safety shower and normal washroom facilities.
Symptoms caused by exposure:	Systemic: To date no symptoms are known.
Medical attention and special treatment:	Treat symptomatically. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. There is no specific antidote.

5. FIRE FIGHTING MEASURES

Suitable extinguishing equipment:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media:	High volume water jet
Specific hazards arising from the chemical:	In the event of fire the following may be released: Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Nitrogen oxides (NOx)
Special protective equipment and precautions for fire-fighters:	In the event of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus and protective suit.
Further information	Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by diking area with sand or earth. Do not allow run-off from fire fighting to enter drains or water courses.
Hazchem code:	●3Z

6. ACCIDENTAL RELEASE MEASURES

Personal precautions/ Protective	Avoid contact with spilled product or contaminated surfaces. When
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equipment:	dealing with a spillage do not eat, drink or smoke. Use personal protective equipment. Keep unauthorized people away.
Emergency procedures/ Environmental precautions:	Contain contaminated water and fire fighting water. Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling:	Use only in area provided with appropriate exhaust ventilation. Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands immediately after work, if necessary take a shower. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).
Conditions for safe storage, including any incompatibilities:	Keep out of the reach of children. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Keep away from food, drink and animal feeding stuffs.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure control parameters:	No value assigned for this specific material by Safe Work Australia. No biological limit allocated for the product or any of its ingredients. No biological monitoring is required.
Control banding:	Not available.
Engineering controls:	Use in well-ventilated areas. Keep containers closed when not in use.
Individual protection measures, such as Personal Protective Equipment (PPE):	
See container label safety directions. The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.	
Observe good standards of hygiene and cleanliness. Always wash hands, arms and face thoroughly with soap and water before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment with detergent and warm water before storage or re-use.	
Eye and face protection:	Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).
Skin protection:	Wear standard coveralls and Category 3 Type 4 suit. If there is a risk of significant exposure, consider a higher protective type suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently. If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.
General protective measures:	In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the above mentioned recommendations would apply.
Thermal hazards:	No further relevant information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Beige opaque
Odour:	Mild odour
pH:	5.0 – 8.0
Specific gravity:	1.059±0.05

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Melting point/Freezing point:	No data available
Boiling point/range:	No data available
Flammability:	No data available
Lower and upper explosion limit/flammability limit:	No data available
Flash point:	No data available
Density and/or relative density	No data available
Evaporation point:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Solubility:	No data available
Partition coefficient: n- octanol/water	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Kinematic viscosity:	No data available
Persistent foaming:	60mL max
Wet sieve test:	75µm 98%min
Suspensibility:	Mean should not be less than 60% and not greater than 105%
Pourability:	Residue after pouring – 5% max Residue after rinsing – 0.25% max

10. STABILITY AND REACTIVITY

Reactivity:	Stable under normal conditions.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No hazardous reactions when stored and handled according to prescribed instructions.
Conditions to avoid:	Extremes of temperature and direct sunlight.
Incompatible materials:	Strong bases, Strong acids, Strong oxidizing agents
Hazardous decomposition products:	Thermal decomposition can lead to release of: Hydrogen cyanide (hydrocyanic acid) Carbon monoxide Nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

No data is available on the formulated product. Information on the individual hazardous ingredients is provided below.

The information presented below is based on the toxicity data for the constituent, Spirotetramt:

Acute oral toxicity:	LD50 (Rat) > 2,000 mg/kg
Acute inhalation toxicity :	LC50 (Rat) > 4.18mg/l
Acute dermal toxicity:	LD50 (Rat) > 2,000 mg/kg
Skin irritation :	No skin irritation
Eye irritation:	Irritation to eyes
Sensitisation :	Sensitising
Assessment mutagenicity:	Spirotetramt was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.
Assessment carcinogenicity:	Spirotetramt was not carcinogenic in lifetime feeding studies in rats and mice.
Assessment toxicity to reproduction:	Spirotetramt caused male reproductive toxicity in the presence of general toxicity in the rat at very high experimental dose levels. There were no effects on male fertility in mice and dogs. The reproductive toxicity seen with Spirotetramt is due to an overwhelmed elimination capacity at high doses. The high dose levels needed for this effect cannot be achieved even in a worst case exposure scenario.
Assessment developmental toxicity :	Spirotetramt caused developmental toxicity only at dose levels toxic to the dams. Spirotetramt caused a delayed foetal growth, an increased incidence of variations.

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Assessment STOT Specific target organ toxicity – single exposure:	Spirotetramat: May cause respiratory irritation.
Assessment STOT Specific target organ toxicity – repeated exposure :	Spirotetramat did not cause specific target organ toxicity in experimental animal studies.
Aspiration hazard:	Based on available data, the classification criteria are not met.
Information on likely routes of exposure:	May be harmful if inhaled. Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. May cause mild irritation to eyes. Harmful if swallowed.

12. ECOLOGICAL INFORMATION

The information presented below is based on the toxicity data for the constituent, spirotetramat:

Toxicity to fish :	LC50 (Oncorhynchus mykiss (rainbow trout)) 7.75 mg/l Exposure time: 96 h LC50 (Lepomis macrochirus (Bluegill sunfish)) 2.2 mg/l Exposure time: 96 h
Toxicity to aquatic invertebrates :	EC50 (Daphnia magna (Water flea)) >= 42.7 mg/l Exposure time: 48 h EC50 (Chironomus riparius (non-biting midge)) 0.46 mg/l Exposure time: 28 d NOEC (Chironomus riparius (non-biting midge)) 0.1 mg/l Exposure time: 28 d
Toxicity to aquatic plants :	IC50 (Raphidocelis subcapitata (freshwater green alga)) 13.4 mg/l Growth rate; Exposure time: 72 h IC50 (Raphidocelis subcapitata (freshwater green alga)) 8.15 mg/l Exposure time: 72 h
Toxicity to other organisms:	LD50 (Colinus virginianus (Bobwhite quail)) > 2,000 mg/kg
Persistence and degradability	
Biodegradability :	Spirotetramat: Not rapidly biodegradable
Koc:	Spirotetramat: Koc: 289
Bioaccumulative potential:	Spirotetramat: Does not bioaccumulate
Mobility in soil:	Spirotetramat: Moderately mobile in soils

13. DISPOSAL CONSIDERATIONS

Disposal methods:	Metal drums and plastic containers: Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Do not reuse container for any other purpose.
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14. TRANSPORT INFORMATION

Road and rail transport:	Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to the provisions of the Australian Code for the Transport of Dangerous Goods by Road and
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Rail when transported by road or rail in;
(a) packagings that do not incorporate a receptacle exceeding 500 kg(L);
(b) or IBCs.

Marine transport:

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea;
MARINE POLLUTANT

UN Number: 3082
Proper Shipping Name or Technical Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport Hazard Class: 9
PPacking Group Number: III
Hazchem Code: •3Z
IMDG EMS Fire: F - A
IMDG EMS Spill: S - F
Environmental hazards: Yes.
Special precautions for users: Not available.
Additional Information: The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg.

Air transport:

IATA provision SP A197: Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subject to this Code when transported air in; packages that have inner packages (plastic bottles, glass bottles, plastic bags) of 5 L for UN3082 and 5 kg for UN3077 or less.

UN Number: 3082
Proper Shipping Name or Technical Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport Hazard Class: 9
Packing Group Number: III
Hazchem Code: •3Z
Special precautions for users: Not available.
Additional Information: IATA Special Provision A197: when transported in sizes of ≤ 5 L or ≤ 5 kg per packaging (inner or single) are not subject to the code.

15. REGULATORY INFORMATION

Safety, health and environmental regulations:

Poison schedule (SUSMP): Schedule 6
APVMA approval no.: 92474
AICIS: Listing in the AICIS is not required for products regulated by the APVMA.

16. OTHER INFORMATION

General information: None
Issue number: 002
Issue date: 16 May 2025

In any event, the review and, if necessary, the re-issue of an SDS shall be no longer than 5 years after the last date of issue.

Reason(s) for issue: First issue

Key abbreviations or acronyms used: ADG Code - Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition)
AICIS – Australian Industrial Chemicals Introduction Scheme (formerly NICNAS)

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AIIC - Australian Inventory of Industrial Chemicals
AgVet Code Act 1994 – Agricultural and Veterinary Chemicals Code
Act 1994 APVMA Agricultural Pesticides and Veterinary Medicines
Australia
GHS - Globally Harmonised System of Classification and Labelling of
Chemicals (7th revised edition)
IARC - International Agency for Research on Cancer
Preparation of Safety Data Sheets for Hazardous Chemicals Code of
Practice (June 2023)
LD50 or LC50 – Estimated lethal dose / concentration to kill 50% of the
population/sample.
STEL - Short term exposure limit means the average airborne
concentration of a substance calculated over a 15 minute period. The
STEL should not be exceeded at any time during a normal eight hour
working day.
STOT – Specific Target Organ Toxicity
SUSMP - Standard for the Uniform Scheduling of Medicines & Poisons
SWA - Safe Work Australia, formerly ASCC and NOHSC
TGA – Therapeutic Goods Australia
TWA - Time-weighted average means the average airborne
concentration of a particular substance when calculated over an eight-
hour working day, for a five-day working week.
WHS – Workplace Health and Safety

The physical values and properties described in this SDS are typical values based on scientific literature and material produced to date, and are believed to be reliable. The supplier, YIFAN BIO-TECH provides no warranties, either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein. The information is supplied upon the condition that the persons receiving information will make their own determination as to the suitability for their purposes prior to use of this product. Due care should be taken to ensure that the use of this product and its disposal is in compliance with all relevant Federal, State and Local Government regulations.

End of SDS