

Infosafe No™ 3NUOY	Issue Date : November 2017	APPROVED by NUFARMNZ
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 Product Name **SHERIFF® 100**

1. Identification

GHS Product Identifier	SHERIFF® 100
Product Code	03759
Product Type	Insecticide
Company Name	Nufarm NZ
Address	6 Manu Street, Otahuhu Auckland 2024 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150 Fax: 0-9-270 4159
Emergency phone number	0800 651 911
Email	info@nufarm.com
Recommended use of the chemical and restrictions on use	An insecticide for the control of caterpillar pests in vegetable and forage brassicas, maize, sweetcorn and tomatoes, thrips and aphids in onions and tomatoes, grass grub beetle on non-bearing fruit trees and non-flowering newly planted shelter belts, Tasmanian grass grub and red legged earth mite in pasture and industrial pests in buildings.
Other Information	This SDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

2. Hazard Identification

Other Information	3.1D flammable liquid, 6.1D acute toxicant, 6.3B skin irritant, 6.9B target organ toxicant, 9.1A aquatic toxicant, 9.3B terrestrial vertebrate toxicant, 9.4A terrestrial invertebrate toxicant, FLAMMABLE Warning - combustible liquid. TOXICITY Harmful - may be harmful if swallowed, inhaled or absorbed through the skin. May cause mild skin irritation. Facial skin contact may cause temporary facial numbness. May cause damage to nervous system, blood system and kidneys from repeated oral exposure at high doses. ECOTOXIC Very toxic to aquatic organisms with long-lasting effects. Toxic to terrestrial vertebrates. Very toxic to terrestrial invertebrates. Toxic to bees.
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3. Composition/information on ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Alpha-Cypermethrin	67375-30-8	100 g/L
	Liquid Hydrocarbons	64742-94-5	757 g/L

4. First-aid measures

First Aid Measures	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to-mouth. Obtain medical attention.
Inhalation	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
Ingestion	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
Skin	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water.

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Eye contact	If a large area is affected seek medical assistance. Do not scrub the skin. Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance. Remove contact lenses, if present and easy to do.
First Aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Advice to Doctor	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Water fog, foam, carbon dioxide or dry chemical. Avoid using large volumes of water which would spread the product.
Hazards from Combustion	Although material is not flammable, the concentrate is combustible. If involved in a fire, it will emit carbon monoxide and possibly hydrogen.
Special Protective Equipment for fire fighters	Full protective clothing and self-contained breathing apparatus.
Specific Methods	Keep up wind. Do not allow washings to reach sewage or effluent systems. Keep containers cool with water spray.
Hazchem Code	2X
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: 2 for 500L or more

6. Accidental release measures

Spills & Disposal	Wear protective clothing. Clear area of unprotected personnel. Eliminate all ignition sources and naked lights. Use non-sparking utensils. Contain spill and absorb with sand, soil or absorbent granules. If spill does enter waterways or comes into contact with HSNO class 1, 2, 3.2, 4 or 5 substances contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill. Wash area with water and detergent and absorb with inert material. Dispose of waste safely in an approved landfill.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Prevent from entering drains, waterways or sewers.

7. Handling and storage

Precautions for Safe Handling	Avoid skin and eye contact and inhalation of spray mist. APPROVED HANDLER: This product must be under the control of an approved handler when it is applied in a wide dispersive manner, or used by a commercial contractor. TRACKING: Is not required RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3L or more of SHERIFF 100 is applied within 24 hours. Spray must not contact plants in flower if they are likely to be visited by bees. This product must not be applied onto or into water. Do not allow spray drift over aquatic areas. Do not allow spray to contact food, food preparation surfaces or food utensils.
Conditions for safe storage, including any incompatibilities	Keep out of reach of children. Store in original container tightly closed and in a locked, dry, cool area away from sources of ignition and foodstuffs. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Do not store with HSNO Class 1, 2, 3.2, 4 or 5 substances. Stores containing 100L of SHERIFF 100 require secondary containment and are subject to signage, and more than 100L require emergency response plans. Stores exceeding 500 litres of this substance must have at least 2 fire extinguishers. Do not store below 4°C
Other Information	Always read the label and any attached leaflet before use. Aggregate Storage Volume Thresholds:

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When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

8. Exposure controls/personal protection

Occupational exposure limit values	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product. The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m ³ ; 17ppm TWA, as total hydrocarbon.
Appropriate engineering controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Personal Protective Equipment	When opening the container, preparing spray and using the prepared spray wear safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.
Hygiene Measures	Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work. Wash splashes of concentrate from skin immediately.

9. Physical and chemical properties

Form	Liquid
Appearance	Clear straw coloured liquid
Odour	Aromatic.
Boiling Point	184°C
Solubility in Water	Miscible
Specific Gravity	0.92
Volatile Component	>60% by volume
Flash Point	62°C
Flammability	Combustible.
Kinematic Viscosity	>27 x 10 ⁻⁶ m ² /sec
Other Information	(EC) Emulsifiable concentrate

10. Stability and reactivity

Chemical Stability	Stable under normal conditions of handling and storage. Do not store below 4°C. The product crystallises at low temperatures.
Possibility of hazardous reactions	Keep away from strong oxidising agents.
Hazardous Polymerization	Not known to occur.

11. Toxicological Information

Toxicology Information	No specific toxicological data is available for this product. Data below is for constituents.
Acute Toxicity - Oral	LD50 (mouse) = 35mg/kg for alpha-cypermethrin LD50 (rat) = 40mg/kg for alpha-cypermethrin LD50 (rat and rabbit) = >2,000mg/kg for alpha-cypermethrin
Acute Toxicity - Dermal	
Acute Toxicity - Inhalation	LC50 (rat, 4h) = >0.593mg/L for alpha-cypermethrin
Ingestion	The concentrate is harmful if swallowed. Ingestion of alpha-cypermethrin in relatively large amounts can result in headache, nausea, lethargy, motor weakness and incoordination. May cause irritation to the respiratory tract. Breathing vapour can result in headaches, dizziness and possible nausea. Breathing in high concentrations of vapour can produce central nervous system depression, which can lead to loss of coordination, impaired judgement and if exposure is prolonged, unconsciousness.

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Skin	May irritate the skin. Exposure to alpha-cypermethrin can result in sensations of tingling especially in the face. The effects are transient and generally disappear in one to two days. Topical application of vitamin E cream is effective in reducing discomfort. The occurrence of 'facial sensations' is an indication of exposure. Under these circumstances work practices should be reviewed.
Eye	The concentrate may cause irritation of the eyes.
Chronic Effects	Repeated exposure could result in peripheral nervous system damage.
Serious eye damage/irritation	Mild eye irritant
Skin corrosion/irritation	Mild skin irritant
Subchronic/Chronic Toxicity	Target organ toxicant: nervous system, blood system and kidneys.
Other Information	The Australian Acceptable Daily Intake (ADI) for alpha-cypermethrin for a human is 0.05 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 4.7 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', December 2014).

12. Ecological information

Persistence and degradability	alpha-cypermethrin is not rapidly degradable. Soil DT50 c. 13 weeks in loamy soil for alpha-cypermethrin
Bioaccumulative Potential	alpha-cypermethrin is not bioaccumulative
Basis for Assessment	Ecotoxicological data have not been determined specifically for this product. Data below is for the active ingredient unless otherwise stated.
Acute Toxicity - Fish	LC50 (96h, mortality) silver barb = 0.4µg/L for Silver barb for alpha-cypermethrin LC50 (96h) rainbow trout = 2.8µg/L for alpha-cypermethrin
Acute Toxicity - Daphnia	Acute: EC50 (48h) Daphnia magna = 0.3µg/L for alpha-cypermethrin
Acute Toxicity - Other Organisms	Chronic: NOEL (21d) Daphnia magna = 0.1µg/L for alpha-cypermethrin LC50 (24h) bee = 0.033µg/bee for alpha-cypermethrin LD50 northern bobwhite quail = >2,025mg/kg for alpha-cypermethrin

13. Disposal considerations

Product Disposal	Dispose of product only by using according to the label, or at an approved landfill.
Container Disposal	METAL: Triple rinse empty container and add rinsate to spray tank. Crush and bury in suitable landfill. PLASTIC: Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

14. Transport information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
U.N. Number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (alpha-cypermethrin, 10%)
Transport hazard class(es)	9
Hazchem Code	2X
Packaging Method	-
Packing Group	III
EPG Number	-
IERG Number	47



Safety Data Sheet

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IMO Marine Pollutant Yes. Environmentally Hazardous Substance mark required.
IMDG EMS F-A, S-F
Other Information Do not carry more than 10L of SHERIFF 100 on a passenger service vehicle. Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

15. Regulatory information

National and or International Regulatory Information Registered pursuant to the ACVM Act 1997, No. P8666
See www.foodsafety.govt.nz for registration conditions
Approved pursuant to the HSNO Act 1996, Approval Code HSR000293
See www.epa.govt.nz for approval controls.
Hazard Rating NFPA/HMIS: 2-2-1
Hazard Category WARNING - Combustible Liquid
HARMFUL * ECOTOXIC - Keep out of reach of children

16. Other Information

Date of preparation or last revision of SDS October 2012
Contact Person/Point IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE
24Hr Tollfree Emergency No: 0800 651 911
24Hr Emergency No: National Poisons Centre Phone: 0800 764 766
Revisions Highlighted 5 yearly review carried out. Various changes and updates made to document.
...End Of MSDS...

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