

SAFETY DATA SHEET



ZAPP JETTING LIQUID

Date of Issue: 6 April 2016

SDS NUMBER A714171/4 NZ

1. Identification of the Substance/Mixture and Supplier.

Product Name:	ZAPP JETTING LIQUID
Application:	Insecticide
Company:	Bayer New Zealand Limited, 3 Argus Place, Hillcrest, Auckland, 0627 New Zealand.
Telephone:	0800 652 488
Facsimile:	0800 229 838
Emergency telephone:	0800 734 607 Ixom SH&E Shared services (24hr)
National Poisons Centre:	0800 POISON (0800 764766)

2. Hazards Identification.

Hazardous Status: Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

HSNO CLASSIFICATION	GHS HAZARD STATEMENTS
6.9B (repeated exposure)	H373 May cause damage to organs through prolonged or repeated exposure.
9.1A	H410 Very toxic to aquatic life with long lasting effects.
9.4A	H441 Very toxic to terrestrial invertebrates.

Signal Word: WARNING

PREVENTION STATEMENTS

P103	Read label before use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.

RESPONSE STATEMENTS

P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.

STORAGE STATEMENTS – N/A

DISPOSAL STATEMENTS

P501	Do not let this product enter the environment. Do not dispose of in waterways or sewers. Dispose of this material and its container as hazardous waste, via a licensed facility. See local council for disposal/recycling information.
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GHS DIAMONDS



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3. Composition/Information on Ingredients.

<u>Chemical Entity</u>	<u>CAS No</u>	<u>Proportion</u>
Triflumuron	64628-44-0	480g/L

4. First Aid Measures.

General information:	Remove victim from contaminated area. If there is a risk of unconsciousness, position and transport in a stable lateral position. Remove soiled or soaked clothing immediately.
Skin contact:	Immediately remove all contaminated clothing, including footwear. Wash affected areas thoroughly with soap and water for at least 15 minutes. Seek medical attention if irritation persists. Take container / label or MSDS for identification.
Eye contact:	Immediately wash open eye in a flow of water for at least 15 minutes. Seek medical assistance. Take container / label or MSDS for identification.
Ingestion:	Rinse mouth with water. Seek immediate medical assistance. Take container / label or MSDS for identification.
Inhalation:	Remove patient to fresh air, avoid breathing vapours yourself. If not breathing apply resuscitation. Seek medical assistance. Take container / label or MSDS for identification.
Notes for medical personal:	Solvents are harmful if inhaled or swallowed. The product is a chitin synthetase inhibitor – this enzyme is not present in mammals. There are no specific symptoms of Triflumuron toxicity known. The active constituent has a very low mammalian toxicity. It low toxicity makes it of minor importance relevant to solvent effects in cases of ingestion. Systemic toxicity with this product is unlikely. In the case of ingesting apply basic aid, decontamination and symptomatic treatment for possible solvent inhalation into the lungs.
Further Information:	Contact the National Poisons and Hazardous Chemicals Information centre in Dunedin, PO Box 913, Dunedin. Phone 0800 764 766, 0800 POISON.

5. Fire-Fighting Measures.

Extinguishing media and methods:	Sprayed water jet, foam, dry chemical powder CO ₂ and sand.
Recommended protective clothing:	Fire fighters should wear self contained breathing apparatus.
Further Information:	Make provision for fire water to be contained.

6. Accidental Release Measures.

Spill and leak procedure:	Do not empty into drains or waters. Take up spilled product with absorbent material (e.g. sawdust, peat, chemical binder). Fill materials taken up into closable container. To clean the floor and all objects contaminated by this material, use damp cloth. Also place used cleaning materials into closable receptacles. Do not eat, drink or smoke during cleanup operation.
Protective Equipment:	Wear self contained breathing apparatus in enclosed areas. In well ventilated areas a full face mask with combination filter P2 (offers no protection from carbon monoxide)In special cases additional measures for personal protection may be necessary, e.g. wearing chemical-

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resistant and possibly anti static protective gloves or boots and chemical-resistant suit with or without independent air supply.

7. Handling and Storage.

Handling: Suitable container materials: High density polyethylene (HDPE).
Storage: To ensure the quality of the product avoid temperature below -10°C and above 40°C. Keep away from food, drink and animal feed stuffs.

8. Exposure Control/Personal Protection

Engineering measures: Use in well ventilated area
Respiratory Protection: Wear self contained breathing apparatus in enclosed areas. In well ventilated areas a full face mask with combination filter and P2 pre-filter.
Hand Protection: Wash hands after use.
Eye Protection: No eye protection required under normal conditions, under other conditions use chemical safety goggles
Hygiene measures: Keep the place of work clean. Avoid contact with product. Keep working clothes separate. Change badly soiled or soaked clothing.

9. Physical and Chemical Properties

Form: Liquid, suspension
Colour: White – light beige
Odour: Slight characteristic smell.
pH: 6.5-8.2 (undiluted)
Density: Approx 1.22 g/cm³ at 20°C
Solubility in water: Miscible
Viscosity: 43-60 sec. flow time at 20 °C

10. Stability and Reactivity

Chemical stability: Product is chemically stable. Product is hygroscopic
Hazardous decomposition products: Thermal decomposition products include hydrogen chloride, hydrogen fluoride, carbon monoxide, and nitrogen oxides.
Incompatible materials: Avoid oxidising agents

11. Toxicological Information

Acute toxicity: LD50 oral, rat: >5000 mg/kg (of similar product)
LD50 dermal, rat: > 5000 mg/kg (of similar product)
Skin irritation: Non-irritant
Eye irritation: Non-irritant
Health hazard information: Triflumuron is a chitin synthetase inhibitor which in insects disrupts exoskeleton formation. Since this enzyme is not present in mammals triflumuron has no direct toxic effect in these species

12. Ecological Information

Fish toxicity: LC₅₀ (96hr) 431 mg/L Rainbow trout (*Oncorhynchus mykiss*)
LC₅₀ (96hr) 183 mg/L (*Lepomis macrochirus*)
Daphnia toxicity: EC₅₀ (48hr) 0.32 µg/L Water flea (*Daphnia magna*)

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Algal toxicity:	IC ₅₀ (72hr) growth rate >446 mg/L Green algae (Scenedesmus subspicatus)
Bacterial toxicity:	EC ₅₀ >10000 mg/L activated sludge
Other information:	Must be strictly prevented from reaching watercourses.

13. Disposal Considerations.

Disposal after use:	In cases where larger amounts of the product have become unusable, it should be established whether material utilisation is possible (if necessary consult the manufacturer/supplier). Small amounts of the product and un-cleaned empty packaging should be packaged and sealed, labelled and transferred to a suitable incinerator in accordance with the local regulations.
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14. Transportation Information.

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (48% triflumuron)
UN Number:	3082
Hazard Class:	9
Hazchem Code:	3Z
Packing Group:	III
Flashpoint:	>93°C
Marine pollutant:	Yes



15. Regulatory Information.

ACVM Number: A8247

HSNO Approval Number: HSR000718

HSNO Classification

6.9B, 9.1A, 9.4A

Controls for hazardous substances:

This hazardous substance must be under the personal control of an approved handler when the substance is; applied in a wide dispersive manner; or used by a commercial contractor; or applied directly onto or into water. No tracking required.

- Level 2 Emergency Management Information required when > 1.0Litre is present in a workplace.
- Level 3 Emergency Management Plans required when > 100 Litres is presenting a workplace.
- When an excess of 100Litres is stored, signage is required for ecotoxic substance.

Controls of hazardous substances are based upon current knowledge. Where multiple chemicals are stored, controls will take into account aggregate quantities. Contact an EPA/WorkSafe NZ Approved Test Certifier for further information and guidance.

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16. Other Information.

HSNO = Hazardous Substances and New Organisms Act.
EPA = Environmental Protection Authority

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.