

SAFETY DATA SHEET



ADVANTAGE FOR DOGS AND CATS

Date of Issue: 15 March 2016

SDS NUMBER A18137/7 NZ

1. Identification of the Substance/Mixture and Supplier.

Product Name:	ADVANTAGE
Other Product Names:	Imidacloprid, benzyl alcohol
Application:	Topical insecticide for flea control in cats and dogs
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
3.1D	H227 Combustible liquid.
6.1D (oral)	H302 Harmful if swallowed.
6.1E (dermal)	H313 May be harmful in contact with skin.
6.4A	H319 Causes serious eye irritation.
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.
9.2B	H422 Toxic to the soil environment.
9.3B	H432 Toxic to terrestrial vertebrates.
9.4A	H441 Very toxic to terrestrial invertebrates.

Signal Word: WARNING

PREVENTION STATEMENTS

P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P260	Do not breathe mist/vapours/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

RESPONSE STATEMENTS

P370 + P378	In case of fire: Use foam, carbon dioxide or dry chemical powder for extinction.
P101	If medical advice is needed, have product container or label at hand.

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P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.

STORAGE STATEMENTS

P403 + P235 Store in a well-ventilated place. Keep cool.

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.

GHS DIAMONDS



3. Composition/Information on Ingredients.

<u>Chemical Entity</u>	<u>CAS No</u>	<u>Proportion</u>
Benzyl Alcohol	100-51-6	>60%
Imidacloprid	138261-41-3	10%
Other ingredients determined to be non hazardous (10-30%)		

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. Seek medical advice if you feel unwell.
Skin Contact:	Remove contaminated clothing. Wash affected area immediately with soap and water. Seek medical attention if skin irritation develops.
Eye Contact:	Irritating to eyes. Rinse cautiously with plenty of water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. If irritation persists, seek medical advice.
Ingestion:	Harmful if swallowed. If vomiting occurs keep head lower than hips to help prevent aspiration. Seek medical attention.
Inhalation:	Harmful by inhalation. Remove patient from exposure and perform artificial respiration if necessary.
Notes for medical personal:	Imidacloprid is a chloronicotinyl compound. (syn. Neonicotinoid). There is no specific antidote. Apply basic aid and decontamination procedures. The formulation is extremely bitter and unlikely to be swallowed in any significant quantity.
Further Information:	Contact the National Poisons and Hazardous Chemicals Information centre in Dunedin, PO Box 913, Dunedin. Phone 0800 764 766, 0800 POISON.

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5. Fire-Fighting Measures.

Extinguishing media and methods: Sprayed water jet, foam, dry powder, CO₂ or sand
Recommended protective clothing: Fire fighters should wear self contained breathing apparatus.
Further Information: Fight fire in early stages if safe to do so. Contain fire fighting water.

6. Accidental Release Measures.

Spill and leak procedure: Prevent spillage from spreading or entering soil, waterways or drains.
Methods for cleaning up: Take up with absorbent material. Fill material along with any contaminated soil into closable containers. Clean affected areas with aqueous detergent and a small amount of water. Absorb this detergent/water with further absorbent materials. Place any cleaning materials used into the same closable container.
Further Information: Do not eat, drink or smoke during the clean up operation. Avoid breathing vapour or spray

7. Handling and Storage.

Handling: During normal use the packaging ensures safe handling. Follow instruction on product label. Keep away from ignition sources.
Storage: Keep out of reach of children. Store away from food, drink or animal feeding stuffs. To maintain quality store below 30°C. Protect from temperatures below 0°C, and above 50°C. Keep away from heat and moisture.
HSNO incompatibly: Incompatible with class 1, 2, 3.2, 4 and 5 substances.

8. Exposure Control/Personal Protection

Engineering measures: No specialised ventilation required under normal conditions of use.
Respiratory Protection: Do not inhale vapour. No respirator required under normal conditions of use.
Hand Protection: Avoid skin contact. No skin protection is required under normal conditions of use. Under other conditions, wear rubber or latex gloves. Wash hands before breaks and at the end of work.
Eye Protection: Avoid eye contact. No eye protection is required under normal conditions of use, Under other conditions, wear safety goggles.
Hygiene measures: Avoid contact with eyes or skin. Clean working clothes and protective equipment with soap and water. Change badly soiled or soaked clothing. Wash hands before breaks and at the end of work. If product is splashed on kin immediately wash area with soap and water. Keep away from food stuffs, drinks and tobacco.

9. Physical and Chemical Properties

Form: Liquid
Colour: Clear, yellow – brown
Odour: Weak characteristic odour.
Boiling Point: 207°C at 1013 hPa
Density: 1.093 – 1.103 kg/L at 20°C
Vapour Pressure: 2 hPa at 20°C
9 hPa at 50°C

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Viscosity:	11 hPa at 55°C
Solubility in water:	approx 29s (DIN EN ISO 2431)
pH	Miscible
Flash point:	Approx 6.4
Ignition temperatures:	88°C
Explosion limits:	415°C
Other information:	Not available
	The product is packaged in individual, single dose tubes of 0.4 – 4.0 mL capacity. The tubes are packed in blister pack trays of 4 or 6 tubes per tray. The product is therefore well protected from accidental release.
10. Stability and Reactivity	
Hazardous decomposition products:	Thermal decomposition products include hydrogen cyanide, carbon monoxide and nitrogen oxides.
Hazardous reactions:	Will not polymerise
Conditions to avoid:	Avoid strong oxidising agents
11. Toxicological Information	
Acute oral toxicity:	LD ₅₀ : 1732-1943 mg/kg (rat, formulation)
Acute dermal toxicity:	LD ₅₀ : >2000 mg/kg (rat, formulation)
Acute Inhalation toxicity:	LC ₅₀ : >2145 mg/L, 4hr (rat, formulation)
Skin irritation:	Non irritant (guinea pig)
Eye irritation:	Mildly irritating (rabbit)
Sensitization:	Non sensitising (rabbit)
12. Ecological Information	
Bioaccumulation:	K _{OW} logP = 0.57 at 21°C (imidacloprid) - Not Bioaccumulative
Acute bacterial toxicity:	Benzyl alcohol: EC ₁₀ ca. 658 mg/L (Pseudomonas putida)
Acute toxicity for algae:	Benzyl alcohol: EC ₅₀ 640 mg/L (96hr, Scenedesmus subspicatus)
Acute toxicity for daphnia:	Benzyl alcohol: EC ₅₀ 400 mg/L (Daphnia magna)
	Imidacloprid: EC ₅₀ 0.055 mg/L (48hr Hyalella azteca) EC ₅₀ 85 mg/L (48hr, Daphnia magna)
Acute fish toxicity:	imidacloprid LC ₅₀ 237 mg/L (96hr, Leuciscus idus) LC ₅₀ 211 mg/L (96hr, Oncorhynchus mykiss) LC ₅₀ 280 mg/L (96hr, Cyprinus carpio)
	Benzyl alcohol LC ₅₀ 646 mg/L (48hr, Leuciscus idus) LC ₅₀ 460 mg/L (96hr, Pimephales promelas)
13. Disposal Considerations.	
Disposal:	Dispose of unused product in sealed containers at an approved local waste disposal company.
Empty Container precautions:	Dispose of used applicators by wrapping in paper and placing in garbage

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14. Transportation Information.

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Imidacloprid)
UN Number:	3082
Hazard Class:	9
Hazchem Code:	3Z
Packing Group:	III
Flashpoint:	88°C
Marine pollutant	Yes
Hazardous substance regulations:	Maximum quantity per package permitted on passenger services vehicle 1L



15. Regulatory Information.

ACVM Number A07522

HSNO Approval Number: HSR001870

HSNO Classification

3.1D, 6.1D(oral), 6.4A, 6.9B, 9.1A, 9.2B, 9.3B, 9.4A

Controls for hazardous substances:

- This product is exempt from approved handler and tracking requirements.
At least 2 x 4.5kg powder fire extinguishers required when >500L is present in a workplace
- Level 2 Emergency Management Information required when >1L present in a workplace.
- Level 3 Emergency Management Plans required when >100L present in a workplace.
- This product requires signage for toxic substances where 10 000L is stored
- Where an excess of 100L of this product is stored, signage is required for ecotoxic substances.

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 Approved Test Certifier for further information and guidance.

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.