



SAFETY DATA SHEET

A18125/08/AUS

KILTIX TICK COLLAR FOR DOGS

SECTION 1 – IDENTIFICATION, CONTACTS

Bayer Australia Ltd 875 Pacific Highway Pymble NSW 2073	Emergency Telephone Number 1800 033 111 24 hour Emergency Service Australia Wide, Toll Free Contact Point (for non-emergency calls) Animal Health Division (02) 9391-6000
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Product Name	Kiltix Tick Collar for Dogs
Product Use	Insecticidal collar for tick control on dogs.
Other Names	Flumethrin, Propoxur.
Creation Date	25 th June 2003
Revision Date	9 December 2016

SECTION 2 – HAZARD IDENTIFICATION

GHS-Classification	Acute toxicity, Oral, Category 4 Hazardous to the aquatic environment, Category 1 Hazardous to the aquatic environment, Category 1
Signal Word	Warning
Hazard statements	H302 Harmful if swallowed. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	Prevention: P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. Response: P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P330 Rinse mouth. P391 Collect spillage. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3 – COMPOSITION**Hazardous
Components****Flumethrin**

Concentration [Weight percent] <3

CAS-No.: 69770-45-2

CAS name: Cyclopropanecarboxylic acid, 3-(2-chloro-2-(4-chlorophenyl)ethenyl)-2,2-dimethyl-, cyano(4-fluoro-3-phenoxyphenyl)methyl ester

GHS Classification

Acute Tox. 3 H301

Acute Tox. 4 H312

Acute Tox. 3 H331

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

Propoxur

Concentration [Weight percent] 10

CAS-No.: 114-26-1

CAS name: Carbamic acid, methyl-, o-isopropoxyphenyl ester

GHS Classification:

Acute Tox. 3 H301

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

SECTION 4 – FIRST AID MEASURES**Inhalation**

Inhalation is not an exposure route for this product.

Skin contact

Remove contaminated clothing. Wash affected area immediately with soap and water. Seek medical attention if required.

Eye contact

May irritate the eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion

Toxic if swallowed. If vomiting occurs keep head lower than hips to help prevent aspiration. Seek medical attention if required.

Advice to doctor

Carbamates act by inhibiting cholinesterase. Some symptoms of overexposure that can occur due to propoxur if the product is mishandled are headache, drowsiness, nausea, tightness of chest, cramps, vomiting, diarrhoea. Synthetic pyrethroids can cause irritation of skin and mucous membranes in sensitive individuals. However both the active constituents are bound in a plastic matrix and are only available in small quantities. Poisoning with this product is unlikely due to the slow release of active ingredients from the plastic matrix. If poisoning occurs, apply basic aid and decontamination procedures. Treat symptomatically and if necessary administer antidote. Antidote: Atropine sulphate at 5-10 minute intervals until dryness of the mouth occurs. It is not recommended to administer oximes (PAM) for the treatment of carbamate toxicity. Atropine is not antidotal for synthetic pyrethroids. Skin and mucous membrane irritation caused by synthetic pyrethroids is usually self-limiting upon removal of the irritant and usually resolves within 24-48 hours.

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media	Sprayed water jet, foam, dry powder, CO ₂ , sand.
Fire and Explosion Hazards	Non-combustible material. Outer packaging may burn.
Hazardous Combustion Products	Thermal decomposition products include hydrogen chloride, hydrogen cyanide, carbon monoxide, methyl isocyanate, and nitrogen oxides.
Fire Fighting	Fight fire in the early stages if safe to do so. Wear respiratory protection. In well ventilated areas wear full face mask with a combination filter. (Offers no protection from carbon monoxide). In enclosed premises: respirator with independent air supply. Contain firefighting water.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Accidental Release	Prevent spillage from spreading or entering soil, waterways and drains. Sweep up spillage and place in a sealable container. Avoid breathing any dust and contact with the skin. On completion of clean up, scrub area with detergent and water and rinse with water. Do not eat, drink or smoke during clean-up operation.
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SECTION 7 – HANDLING AND STORAGE

Safe Handling	No specific recommendations.
Storage	Keep out of reach of children. Store away from food, drink or animal feeding stuffs. Store below 30°C. Keep away from heat or moisture.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits	ES-TWA Propoxur 0.5 mg/cu metre ES-MAK Propoxur 2 mg/cu metre ES-TWA Titanium dioxide 10 mg/cu metre No exposure allocated for other ingredients.
Ventilation	No ventilation is required under normal conditions of use.
Eye Protection	No eye protection is required under normal conditions of use. Under other conditions of use wear goggles.
Skin Protection	Do not open inner envelope until ready to use. Do not allow children to play with the collar. Wash hands after use.
Respirator	No respirator is required under normal conditions of use.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Physical State	Solid
Colour	Brown
Odour	Dusty odour, slightly phenolic
Boiling Point	Not relevant
Softening Point	>75°C
Density	Approx 1.0 kg/L at 20°C
Vapour Pressure	Not relevant
Viscosity	Not relevant
Solubility in Water	Insoluble
pH	Not relevant
Flash Point	Not relevant.
Ignition Temperature	Not relevant
Explosive Limits	Not relevant

SECTION 10 – STABILITY & REACTIVITY

Chemical Stability	Product is stable. No hazardous reactions.
Conditions to Avoid	Avoid strong oxidising agents.
Incompatible Materials	None
Hazardous Decomposition	Thermal decomposition products include hydrogen chloride, hydrogen cyanide, carbon monoxide, methyl isocyanate, and nitrogen oxides.
Hazardous Reactions	Will not polymerise.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	The active ingredients are largely immobilised by the collar. Approximately 0.4 mg is released per day. Oral LD ₅₀ (dog) >2000 mg/kg (of formulation) Dermal LD ₅₀ (rabbit) >5000 mg/kg (of formulation)
Local Effects	Eye: non-irritant. Skin: non-irritant
Reproductive Effects	None of the ingredients in this product have been shown to produce reproductive effects.
Mutagenicity	None of the ingredients of the formulation have been shown to produce mutagenic effects.
Carcinogenic Effects	None of the ingredients of the formulation have been shown to produce carcinogenic effects.

SECTION 12 – ECOLOGICAL INFORMATION

Octanol/Water Partition Co-efficient K = 1.56 (Propoxur)

Ecotoxicity**Fish toxicity**

Propoxur

LC₅₀: 12 mg/L (96 h) Golden orfe (*Leuciscus idus*)

LC₅₀: 4-14 mg/L (96 h) Rainbow trout (*Salmo gairdneri*)

LC₅₀: 6.6 mg/L (96 h) (*Lepomis macrochirus*)

LC₅₀: 10-40 mg/L (96 h) Illy fish (*Orizias latipes*)

LC₅₀: 10-40 mg/L Carp (*Cyprinus carpio*)

Flumethrin

Concentrations down to 0.5 mg/L are toxic to goldfish

Daphnia toxicity

Propoxur

EC₅₀: 0.15 mg/L (48 h) Water flea (*Daphnia magna*)

Flumethrin

LC₅₀: 0.2 mg/L (48 h) Water flea (*Daphnia magna*)

Flumethrin is a toxic hazard for aquatic organisms

Algae

Propoxur

IC₅₀ (growth): 43.0 mg/L Green algae (*Scenedesmus subspicatus*)

Bird toxicity

Propoxur

LD₅₀ (oral): 3.6-60 mg/kg depending on species

Bee toxicity

Propoxur

LD₅₀: 0.24 µg/bee (24 hours)

Propoxur is a toxic hazard to honeybees.

SECTION 13 – DISPOSAL INFORMATION

After Intended Use Dispose of used packaging by wrapping in paper and placing in garbage.

After spill or accident Dispose of sealed containers at an approved local waste disposal site.

SECTION 14 – TRANSPORT INFORMATION

UN No 3077

UN Proper Shipping Name Environmentally Hazardous Substance, Solid, N.O.S. (Propoxur, Flumethrin)

Class & Subsidiary Risk 9

Packaging Group III

SECTION 15 – REGULATORY INFORMATION

Poisons Schedule	S5
APVMA Registration	The product is registered by the APVMA.
Registration Number	51952

SECTION 16 – OTHER INFORMATION

Summary of Changes	GHS Update
Acronyms	<p>ADG Code Australian Code for the Transport of Dangerous Goods by Road and Rail</p> <p>APVMA Australian Pesticides and Veterinary Medicines Authority</p> <p>CAS Chemical Abstracts Service Registry Number</p> <p>GHS Globally Harmonized System of Classification and Labelling of Chemicals</p> <p>HDPE High density polyethylene</p> <p>LDPE Low density polyethylene</p> <p>OECD Organisation for Economic Co-operation and Development</p> <p>STOT Specific Target Organ Toxicity</p> <p>SUSDP Standard for the Uniform Scheduling of Drugs and Poisons</p> <p>TWA Time Weighted Average – average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.</p> <p>UN Number United Nations number</p>
Disclaimer	<p>This Safety Data Sheet has been developed according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Third revised edition. United Nations, 2009. The data, information and recommendations herein ("information") are represented in good faith and believed to be correct as of the date hereof. The purpose of this Safety Data Sheet is to describe product in terms of their safety requirements. Bayer Australia Limited makes no representation of merchantability, fitness for a particular purpose or application, or of any other nature with respect to the information or the product to which the information refers ("the product"). The information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use of the product. The physical data shown herein are typical values based on material tested. These values should not be construed as a guaranteed analysis of any specific lot or as guaranteed specification for the product or specific lots thereof. Due care should be taken to make sure that the use or disposal of this product and / or its packaging is in compliance with relevant Federal, State and Local Government regulations.</p>

END OF SDS