



Safety Data Sheet

SDS No.:
SDS-P/G-T/01

Tikumin Bait

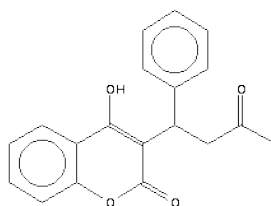
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Section 1: Identification of the Hazardous Chemical and of the Supplier

1.1 Product Identifier

Product Name: Warfarin 0.05% Bait
Trade Name: Tikumin Bait
Active Ingredient: Warfarin
CAS No.(AI): 28249-77-6
Structural Formula:



Recommended Usage: Rodenticide

1.2 Supplier's Information

Address: Agricultural Chemicals (M) Sdn. Bhd.
962, Lorong Perusahaan 8
Taman Perindustrian Perai
13600 Perai, Pulau Pinang
Malaysia
Tel.: +6-04-3907988
Fax: +6-04-3905703
Web: www.agrichem.com.my
Emergency Phone: +6-04-3907988

Section 2: Hazard Identification

Classification: Not classified as hazardous under CLASS Regulations.
Pictogram: None.
Signal Word: None.
Hazard Statement: None.
Precautionary Statement: None.

Section 3: Composition and Information of the Ingredients of the Hazardous Chemical

Component	CAS No.	Weight %	Hazard Code
Warfarin	81-81-2	0.05%	H300, H311, H330, H360, H372, H412



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Component	CAS No.	Weight %	Hazard Code
Foodstuff 1	-	30% to 60%	-
Foodstuff 2	-	5% to < 10%	-
Attractant 1	-	1% to < 3%	-
Attractant 2	-	< 1%	-
Coating agent 1	-	10% to < 30%	-
Coating agent 2	-	5% to < 10%	H315
Preservative 1	-	< 1%	H319
Preservative 2	-	< 1%	H302, H315, H319, H411
Color	-	< 1%	H302, H318, H412
Absorbent	-	< 1%	H319
Water	-	< 1%	-

Section 4: First-aid Measures

Call a POISON CENTER or doctor/physician if you feel unwell.

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin Contact:	Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse
Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion:	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
Symptoms:	No data available
Notes to Physician:	No specific recommendations. Treat symptomatically

Section 5: Fire-fighting Measures

Suitable Extinguishing Media:	Carbon dioxide (CO ₂), chemical foam, dry chemical, water
Specific Hazard During Fire:	No data available
Special Protective Equipment:	Fire fighters should wear full-faced self-contained breathing apparatus and protective clothing

Section 6: Accidental Release Measures

Personal Precautions:	Do not handle until all safety precautions have been read and understood. Wear appropriate protective equipment as required
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Environmental Precautions: Avoid release to the environment
Method for Cleaning Up: Wear protective clothing as indicated in Section 8. Evacuate non essential personnel. Collect the spill into waste container for disposal. Wash the contaminated area with a little water and detergent. Adsorb with inert material such as clay or earth. Collect into the same container for disposal. Prevent the spillage from entering local drainage system.

Section 7: Handling and Storage

Precautions for Safe Handling: Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid release to the environment.
Conditions for Safe Storage: Keep in original container, tightly closed, out of reach of children. Keep away from food, drinks and animal feeding stuffs. Read the label before use. Do not contaminate water. Open dumping is prohibited.
Incompatibles: No data available

Section 8: Exposure Control and Personal Protection

Exposure Limit:

Source	Component	CAS No.	Limit	
France VL	Warfarin	81-81-2	TWA	0.1mg/m ³
OSHA			TWA	0.1mg/m ³
ACGIH			TWA	0.1mg/m ³
-	Absorbent	-	TWA	10mg/m ³
OSHA			STEL-TWA (<1%)	6mg/m ³
ACGIH			STEL-TWA (<1%)	10mg/m ³
NIOSH			STEL-TWA 10hour(s)	6mg/m ³
OSHA PEL	Filler	-	TWA total particulate	15mg/m ³
ACGIH TLV			TWA respirable fraction	5mg/m ³
			TWA for respirable dust, A4 not classifiable as a human carcinogen	2mg/m ³
NIOSH REL			TWA total particulate	10mg/m ³
	TWA respirable fraction	5mg/m ³		

Engineering Control: Local exhaust or general dilution ventilation
Individual Protection Measure: Avoid inhalation. Wash thoroughly after handling and before eating or drinking. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin and eyes.



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Personal Protective Equipment:

Eye Protection: Protective goggles
Skin Protection: Rubber gloves and clothing
Respiratory Protection: Pesticide respiratory masks

Section 9: Physical and Chemical Properties

Appearance: Pink reddish to reddish cube
Odour: Characteristic odour
Odour Threshold: No data available
pH: 5.5 (typical)
Melting/Freezing Point: 159°C to 164°C (Warfarin)
Initial Boiling Point: No data available
Boiling Range: No data available
Flash Point: No data available
Evaporation Rate: No data available
Flammability: No data available
Upper Flammability Limit: No data available
Lower Flammability Limit: No data available
Vapour Pressure: No data available
Vapour Density: No data available
Relative Density: No data available
Solubility in Water: Insoluble in water
Partition Coefficient $P_{o/w}$: No data available
Auto-ignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: No data available

Section 10: Stability and Reactivity

Reactivity: No data available
Chemical Stability: Stable under normal conditions
Hazardous Reaction: None
Condition to Avoid: Direct sunlight, heat and extreme temperature
Incompatible Material: No data available
Hazardous Decomposition Product: No data available

Section 11: Toxicological Information

11.1 Acute Toxicity

Component: Warfarin

Ingestion, Oral LD ₅₀ :			
	Rat	1.6mg/kg	



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Skin Contact, Dermal LD ₅₀ :			
	Rat	1400mg/kg	
Inhalation, LC ₅₀ :			
	Rat	0.32mg/L	
Component: Coating agent 1			
Ingestion, Oral LD ₅₀ :			
	Rat	>5000mg/kg	
Skin Contact, Dermal LD ₅₀ :		>5000mg/kg	
Component: Color			
Ingestion, Oral LD ₅₀			
	Mouse	887mg/kg	

11.2 Chronic Effect from Short and Long Term Exposure

Skin Contact: No data available
Eye Contact: No data available
Inhalation: No data available
Ingestion: No data available
Carcinogenicity: No data available
Mutagenicity: No data available
Teratogenicity: No data available

11.3 Symptoms No data available

Section 12: Ecological Information

Ecotoxicity:

Component: Color

Aquatic Toxicity:			
	Cyprinodon variegatus, LC ₅₀ , 96 hr	83.9mg/L	
	Lepomis macrochirus(Bluegill), LC ₅₀ , 96hr	379mg/L	
	Oncorhynchus mykiss (rainbow trout), LC ₅₀ , 96hr	217mg/L	

Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effect: No data available

Section 13: Disposal Information

Dispose of contents/container to Kualiti Alam / authorized body by DOE (pesticides)



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Section 14: Transportation Information

Land (ADR/RID)

Proper Shipping Name	Pesticide, Solid, Toxic, N.O.S.
Hazard Class	6.1
Hazchem Code	-
UN number	2588
Packing Group	III
Label / Mark	6

Sea (IMDG)

Proper Shipping Name	Pesticide, Solid, Toxic, N.O.S.
Hazard Class	6.1
UN Number	-
Packing Group	2588
Marine Pollutant	III
Label	6
Transport Document Name	-

Air (IATA)

Proper Shipping Name	Pesticide, Solid, Toxic, N.O.S.
Hazard Class	6.1
UN number	-
Packing Group	2588
Label / Mark	III
Transport Document Name	-

Section 15: Regulatory Information

Classification: Not classified as hazardous under CLASS Regulations.
Pictogram: None.
Signal Word: None.
Pesticides Act: Class IV
Classification: -

Section 16: Other Information

Date of Preparation: 23 December 2015
Date of Revision: -
Reference Document: ICOP on Chemicals Classification and Hazard Communication 2014
GHS Purple Book
MSDS

Disclaimer: To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.