



# Safety Data Sheet

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

Tikumin 1000

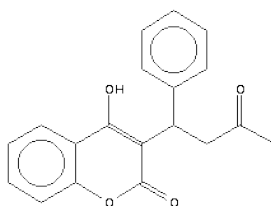
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## Section 1: Identification of the Hazardous Chemical and of the Supplier

### 1.1 Product Identifier

Product Name: Warfarin 1% Heavy Dust  
Trade Name: Tikumin 1000  
Active Ingredient: Warfarin  
CAS No.(AI): 81-81-2  
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](http://www.agrichem.com.my)  
Emergency Phone: +6-04-3907988

## Section 2: Hazard Identification

Classification: Acute Toxicity, Oral Category 3  
Reproductive Toxicity, Category 1B

Pictogram:



Signal Word: Danger

Hazard Statement:

H301: Toxic if swallowed  
H360: May damage fertility or the unborn child



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## Precautionary Statement:

P201:	Obtain special instructions before use
P202:	Do not handle until all safety precautions have been read and understood
P264:	Wash exposed body part thoroughly after handling
P270:	Do not eat, drink, or smoke when using this product
P281:	Use personal protective equipment as required.
P301+P310:	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

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

Component	CAS No.	Weight, %	Hazard Code
Warfarin	81-81-2	1%	H300, H311, H330, H360, H372, H412
Color	-	< 1%	H302, H318, H412
Carrier	-	> 60%	H319
Filler	-	1% to <3%	H319
Water	-	1% to <3%	-

## 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:	Lassitude, bruising, blood stools and urine, prolonged blood clotting time.
Notes to Physician:	No data available.



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## Section 5: Fire-fighting Measures

Suitable Extinguishing Media: Carbon dioxide (CO<sub>2</sub>), 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  
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 <sup>3</sup>
OSHA			TWA	0.1mg/m <sup>3</sup>
ACGIH			TWA	0.1mg/m <sup>3</sup>
-	Filler	-	TWA	10mg/m <sup>3</sup>



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

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.  
Personal Protective Equipment:  
Eye Protection: Protective goggles  
Skin Protection: Protective gloves and clothing  
Respiratory Protection: Pesticide respiratory masks

## Section 9: Physical and Chemical Properties

Appearance: Light purplish powder  
Odour: Slight, characteristic odour  
Odour Threshold: No data available  
pH: No data available  
Melting/Freezing Point: 159°C to 164°C (Warfarin)  
Initial Boiling Point: No data available  
Boiling Range: No data available  
Flash Point: Not applicable  
Evaporation Rate: No data available  
Flammability: Imflammable  
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: Practically insoluble in water  
Partition Coefficient P<sub>o/w</sub>: No data available  
Auto-ignition Temperature: Inflammable  
Decomposition Temperature: No data available  
Viscosity: Not applicable



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## Section 10: Stability and Reactivity

Reactivity:	No data available
Chemical Stability:	Stable to acids. 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 <sub>50</sub> :			
	Rat	1.6mg/kg	
Skin Contact, Dermal LD <sub>50</sub> :			
	Rat	1400mg/kg	
Inhalation, LC <sub>50</sub> :			
	Rat	0.32mg/L	
Component: Color			
Ingestion, Oral LD <sub>50</sub> :			
	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:	Toxic if swallowed
Carcinogenicity:	No data available
Mutagenicity:	No data available
Teratogenicity:	May damage fertility or the unborn child

### 11.3 Symptoms

Lassitude, bruising, blood stools and urine, prolonged blood clotting time



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## Section 12: Ecological Information

Ecotoxicity:

Component: Color

Aquatic Toxicity			
	Cyprinodon variegatus, LC <sub>50</sub> , 96 hr	83.9mg/L	
	Lepomis macrochirus(Bluegill), LC <sub>50</sub> , 96hr	379mg/L	
	Oncorhynchus mykiss (rainbow trout), LC <sub>50</sub> , 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).

## 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	2588
Packing Group	III
Marine Pollutant	-
Label	6
Transport Document Name	-

### Air (IATA)

Proper Shipping Name	Pesticide, Solid, Toxic, N.O.S.
Hazard Class	6.1



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UN number	2588
Packing Group	III
Label / Mark	6
Transport Document Name	-

## Section 15: Regulatory Information

Classification: Acute Toxicity, Oral Category 3  
Reproductive Toxicity, Category 1B

Signal Word: Danger

Pictogram:



Pesticides Act: Class IV  
Classification: Toxic

## Section 16: Other Information

Date of Preparation: 15 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.