



Safety Data Sheet

according to WHS Regulations

Printing date 16.10.2020

Revision: 15.10.2020

1 Identification

Product Name: TITAN Rat & Mouse Killer Wax Blocks

Other Means of Identification: Mixture

Recommended Use of the Chemical and Restriction on Use: Rodenticide.

Details of Manufacturer or Importer:

Titan Ag
Princes Street Marina,
Suite 15/16 Princes Street,
Newport NSW 2106

Phone Number: 02 9999 6655

Emergency telephone number: 02 9999 6655

2 Hazard(s) Identification

Hazardous Nature:

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

The product is not classified, according to the Globally Harmonised System (GHS).

Signal Word None

Hazard Statements None

Precautionary Statements None

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

CAS: 56073-10-0	Brodifacoum (ISO)	0.005%
	⚠ Acute Toxicity (Oral) 1, H300; Acute Toxicity (Dermal) 1, H310; Acute Toxicity (Inhalation) 1, H330; ⚠ Toxic To Reproduction 1A, H360; STOT RE 1, H372; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	

4 First Aid Measures

Inhalation: If inhaled, remove to fresh air. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if symptoms persist.

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Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. If vomiting occurs give another glass of water. Never give anything by mouth to an unconscious person. Seek medical attention.

Information for Doctor:

Brodifacoum is a coumarin anticoagulant. It interferes with the synthesis of prothrombin disrupting the normal clotting mechanism of the blood, leading to an increased tendency to bleed. These effects may be delayed. Treatment for humans and domestic animal exhibiting signs of poisoning involves the administration of Vitamin K1.

Symptoms Caused by Exposure:

Inhalation: May cause irritation to mucous membranes and respiratory tract.

Skin Contact: Repeated or prolonged skin contact may lead to irritation.

Eye Contact: May cause eye irritation.

Ingestion: May be harmful if swallowed, typically causing increased tendency to bleed. Mild exposure may result in a reduction in the clotting power of the blood, detectable only by laboratory analysis. Moderate exposure may cause bleeding of the gums, increased tendency to bruise, blood in the faeces and urine and excessive bleeding from minor cuts or abrasions. Severe exposure may cause severe gastrointestinal bleeding, massive internal bleeding resulting in shock, coma or in severe cases, death.

5 Fire Fighting Measures

Suitable Extinguishing Media: Dry chemical powder, alcohol foam, carbon dioxide and water fog.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon, oxides of nitrogen, smoke and other toxic fumes. Product is combustible.

Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers. Minimise run-off from fire fighting entering drains or water courses.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear appropriate personal protective equipment.

Environmental Precautions: In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so. Wipe up small spill with clean cloth or paper towels. Cover large spills with damp sand, earth, vermiculite or some other absorbent material. Collect the spilled material by vacuuming or sweeping and place into a suitable, labelled container for disposal. Avoid generating dust.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

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Conditions for Safe Storage:

Store in a cool, dry and well ventilated area out of direct sunlight. Keep container tightly closed when not in use. Check regularly for spills. Protect from heat, sparks, open flames and other sources of ignition. Keep away from food, drink and animal feed. Keep away from oxidising agents.

8 Exposure Controls and Personal Protection

Exposure Standards:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Engineering Controls: Natural ventilation should be adequate under normal use conditions.

Respiratory Protection: Respiratory protection is not required under normal use conditions.

Skin Protection:

Wear gloves and wash hands after use. See Australian/New Zealand Standard AS/NZS 2161 for more information.

Eye and Face Protection: Eye protection is not required under normal use conditions.

9 Physical and Chemical Properties

Appearance:

Form:	Solid
Colour:	Blue
Odour:	Characteristic
Odour Threshold:	No information available
pH-Value:	No information available
Melting point/freezing point:	40 °C
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	No information available
Flammability:	Product is combustible.
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	No information available
Density:	No information available
Relative Density:	1.15
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Not soluble in water.
Partition Coefficient (n-octanol/water):	8.5 log POW
Viscosity:	No information available

10 Stability and Reactivity

Possibility of Hazardous Reactions: No dangerous reactions known under conditions of normal use.

Chemical Stability: Stable under normal conditions.

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Conditions to Avoid: Heat, sparks, open flames, hot surfaces and direct sunlight.**Incompatible Materials:** Oxidising agents.**Hazardous Decomposition Products:** Oxides of carbon, oxides of nitrogen, smoke and other toxic fumes.

11 Toxicological Information

Toxicity:

LD50/LC50 Values Relevant for Classification:		
CAS: 56073-10-0 Brodifacoum (ISO)		
Oral	LD50	25 mg/kg (cat) 0.5-1 mg/kg (dog) 0.4 mg/kg (mouse) 0.4 mg/kg (rat) 0.2 mg/kg (rabbit)

Acute Health Effects**Inhalation:** May cause irritation to mucous membranes and respiratory tract.**Skin:** Repeated or prolonged skin contact may lead to irritation.**Eye:** May cause eye irritation.**Ingestion:**

May be harmful if swallowed, typically causing increased tendency to bleed. Mild exposure may result in a reduction in the clotting power of the blood, detectable only by laboratory analysis. Moderate exposure may cause bleeding of the gums, increased tendency to bruise, blood in the faeces and urine and excessive bleeding from minor cuts or abrasions. Severe exposure may cause severe gastrointestinal bleeding, massive internal bleeding resulting in shock, coma or in severe cases, death.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.**Chronic Health Effects:**

Brodifacoum has been shown to accumulate in the liver in rats and rabbits and has a very long half life (150 to 200 days in rats). In humans, there is a potential for accumulation of small amounts over a long period of time leading to toxic levels within the body.

Existing Conditions Aggravated by Exposure: Pre-existing blood coagulation issues.

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Additional toxicological information:

The Tolerable Daily Intake (TDI) for brodifacoum for a human is 0.0000005 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 0.001 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species.

(Ref: Australian Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', 2020).

12 Ecological Information

Ecotoxicity: Very toxic to terrestrial species.

Aquatic toxicity:

CAS: 56073-10-0 Brodifacoum (ISO)

LC50/96 h	0.015 mg/l (rainbow trout)
LC50/48 h	0.98 mg/l (daphnia)

Persistence and Degradability: No data available on finished product.

Bioaccumulative Potential: No data available on finished product.

Mobility in Soil: No data available on finished product.

Other adverse effects: No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number Not regulated

Proper Shipping Name Not regulated

Dangerous Goods Class Not regulated

Packing Group: Not regulated

15 Regulatory Information

Australian Inventory of Chemical Substances:

CAS: 56073-10-0	Brodifacoum (ISO)
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Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 6

Australia: Priority Existing Chemicals

None of the ingredients is listed.

16 Other Information

Date of Preparation or Last Revision: 15.10.2020

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Prepared by: MSDS.COM.AU Pty Ltd

www.msds.com.au

Abbreviations and acronyms:

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Acute Toxicity (Oral) 1: Acute toxicity - oral – Category 1

Toxic To Reproduction 1A: Reproductive toxicity – Category 1A

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - May 2018”

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