

TALON RAT & MOUSE KILLER GRAIN

Version 1.1 Revision Date: 02.08.2023 SDS Number: S00056616709 This version replaces all previous versions.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : TALON RAT & MOUSE KILLER GRAIN

Design code : A10976AG

Manufacturer or supplier's details

Company : Syngenta Australia Pty Ltd (ABN 33 002 933 717)
www.syngenta.com.au

Address : 2 Lyonpark Road
Macquarie Park NSW 2113
Australia

Telephone : (02) 8014 5200

Emergency telephone number : 13 11 26 (Poison Information Centre)
1800 033 111 (Syngenta)

Telefax : (02) 8876 8446

Recommended use of the chemical and restrictions on use

Recommended use : Rodenticide

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
brodifacoum (ISO)	56073-10-0	≥ 0.0025 - ≤ 0.025

SECTION 4. FIRST AID MEASURES

General advice : Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.

If inhaled : Move the victim to fresh air.

TALON RAT & MOUSE KILLER GRAIN

Version 1.1 Revision Date: 02.08.2023 SDS Number: S00056616709 This version replaces all previous versions.

In case of skin contact	:	<p>If breathing is irregular or stopped, administer artificial respiration.</p> <p>Keep patient warm and at rest.</p> <p>Call a physician or poison control centre immediately.</p> <p>Take off all contaminated clothing immediately.</p> <p>Wash off immediately with plenty of water.</p> <p>If skin irritation persists, call a physician.</p> <p>Wash contaminated clothing before re-use.</p>
In case of eye contact	:	<p>Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.</p> <p>Remove contact lenses.</p> <p>Immediate medical attention is required.</p>
If swallowed	:	<p>Take victim immediately to hospital.</p> <p>Do NOT induce vomiting.</p>
Most important symptoms and effects, both acute and delayed	:	<p>Symptoms of poisoning are typical of anticoagulants. In severe cases there may be bruising, haematomas of the joints, blood in the faeces and urine</p>
Notes to physician	:	<p>This product contains anticoagulants with an effect similar to warfarin in that they act by interfering with the synthesis of prothrombin.</p> <p>The specific measure of effect is the prothrombin time. Note this may not become prolonged until 12-18 hours after ingestion.</p> <p>The specific antidote is vitamin K1 (Phytomenandione). Initially, antidote should be given by injection (10-20mg, or 0.25mg/kg for children), by slow intravenous infusion at a rate not exceeding 1mg/minute. In severe cases the use of fresh frozen plasma may be required.</p> <p>Maintenance treatment is given orally (40mg/day in divided doses for adults; up to 20mg/day in divided doses for children).</p> <p>The prothrombin time and the haemoglobin should be monitored. Patients should be kept under medical supervision until the prothrombin time has been normal for 3 consecutive days.</p> <p>Oral treatment may need continuing for several months (20mg/day in divided doses for adults and up to 20mg/day in divided doses for children). (For animal cases the dose is 2-5mg/kg).</p>

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	<p>Extinguishing media - small fires</p> <p>Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.</p> <p>Extinguishing media - large fires</p> <p>Alcohol-resistant foam</p> <p>or</p> <p>Water spray</p>
Unsuitable extinguishing media	:	<p>Do not use a solid water stream as it may scatter and spread fire.</p>
Specific hazards during fire-	:	<p>As the product contains combustible organic components, fire</p>

TALON RAT & MOUSE KILLER GRAIN

Version 1.1 Revision Date: 02.08.2023 SDS Number: S00056616709 This version replaces all previous versions.

fighting	will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.
Specific extinguishing methods	: Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.
Special protective equipment for firefighters	: Wear full protective clothing and self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Refer to protective measures listed in sections 7 and 8. Avoid dust formation.
Environmental precautions	: Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	: Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13). Do not create a powder cloud by using a brush or compressed air. Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	: No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.
Conditions for safe storage	: No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures	: THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.
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TALON RAT & MOUSE KILLER GRAIN

Version 1.1 Revision Date: 02.08.2023 SDS Number: S00056616709 This version replaces all previous versions.

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

Maintain air concentrations below occupational exposure standards.

Where necessary, seek additional occupational hygiene advice.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

Material : Nitrile rubber
Break through time : > 480 min
Glove thickness : 0.5 mm

Remarks : Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : No special protective equipment required.
Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Remove and wash contaminated clothing before re-use.

Wear as appropriate:

Dust impervious protective suit

Protective measures : The use of technical measures should always have priority over the use of personal protective equipment.
When selecting personal protective equipment, seek appropriate professional advice.

Personal protective equipment should comply with relevant national standards

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : solid, block

Colour : red

TALON RAT & MOUSE KILLER GRAIN

Version 1.1 Revision Date: 02.08.2023 SDS Number: S00056616709 This version replaces all previous versions.

Odour	:	sweet
Odour Threshold	:	No data available
pH	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Density	:	No data available
Solubility(ies)		
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, kinematic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Particle size	:	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	No dangerous reaction known under conditions of normal use.

TALON RAT & MOUSE KILLER GRAIN

Version 1.1 Revision Date: 02.08.2023 SDS Number: S00056616709 This version replaces all previous versions.

tions
Conditions to avoid : No decomposition if used as directed.
Incompatible materials : None known.
Hazardous decomposition products : No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes : Ingestion
Inhalation
Skin contact
Eye contact

Acute toxicity**Components:****brodifacoum (ISO):**

Acute oral toxicity : LD50 (Rat, male): 0.418 mg/kg
Acute inhalation toxicity : LC50 (Rat, female): 0.00305 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Acute dermal toxicity : LD50 (Rat, female): 3.16 mg/kg

Skin corrosion/irritation**Components:****brodifacoum (ISO):**

Species : Rabbit
Result : No skin irritation

Serious eye damage/eye irritation**Components:****brodifacoum (ISO):**

Species : Rabbit
Result : No eye irritation

Respiratory or skin sensitisation**Components:****brodifacoum (ISO):**

Test Type : Buehler Test
Species : Guinea pig
Result : The product is a skin sensitiser, sub-category 1B.

TALON RAT & MOUSE KILLER GRAIN

Version
1.1

Revision Date:
02.08.2023

SDS Number:
S00056616709

This version replaces all previous versions.

Chronic toxicity

Germ cell mutagenicity

Components:

brodifacoum (ISO):

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

Carcinogenicity

Components:

brodifacoum (ISO):

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Components:

brodifacoum (ISO):

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

STOT - repeated exposure

Components:

brodifacoum (ISO):

Target Organs Assessment : Blood
: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

Further information

Components:

brodifacoum (ISO):

Remarks : Excessive exposure slows blood clotting time and can cause bleeding, shock and death.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

brodifacoum (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.04 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.45 mg/l

TALON RAT & MOUSE KILLER GRAIN

Version 1.1 Revision Date: 02.08.2023 SDS Number: S00056616709 This version replaces all previous versions.

aquatic invertebrates	Exposure time: 48 h
Toxicity to algae/aquatic plants	: ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0.27 mg/l Exposure time: 72 h NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.01 mg/l End point: Growth rate Exposure time: 72 h
M-Factor (Acute aquatic toxicity)	: 10
M-Factor (Chronic aquatic toxicity)	: 10
Toxicity to microorganisms	: EC50 (activated sludge): > 100 mg/l Exposure time: 30 min

Persistence and degradability

Components:

brodifacoum (ISO):

Biodegradability	: Result: Not rapidly biodegradable
Stability in water	: Degradation half life: ca. 300 d Remarks: Persistent in water.

Bioaccumulative potential

Components:

brodifacoum (ISO):

Bioaccumulation	: Remarks: bioaccumulative
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Mobility in soil

Components:

brodifacoum (ISO):

Distribution among environmental compartments	: Remarks: Low mobility in soil.
Stability in soil	: Dissipation time: 157 d Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	: Do not contaminate ponds, waterways or ditches with chemical or used container.
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TALON RAT & MOUSE KILLER GRAIN

Version 1.1 Revision Date: 02.08.2023 SDS Number: S00056616709 This version replaces all previous versions.

Contaminated packaging : Do not dispose of waste into sewer.
 Where possible recycling is preferred to disposal or incineration.
 If recycling is not practicable, dispose of in compliance with local regulations.
 Non-returnable containers:
 Triple rinse containers.
 Add rinsings to spray tank
 If recycling, replace cap and return clean containers to recycler or designated collection point. Containers marked with the drumMUSTER container logo can be taken to a drumMUSTER collection site (02 6206 6868, www.drummuster.org.au).
 Empty containers can be landfilled, when in accordance with the local regulations.
 If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.
 Returnable containers:
 Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : Not applicable
 Proper shipping name : Not applicable
 Class : Not applicable
 Subsidiary risk : Not applicable
 Packing group : Not applicable
 Labels : Not applicable

IATA-DGR

UN/ID No. : Not applicable
 Proper shipping name : Not applicable
 Class : Not applicable
 Subsidiary risk : Not applicable
 Packing group : Not applicable
 Labels : Not applicable
 Packing instruction (cargo aircraft) : Not applicable
 Packing instruction (passenger aircraft) : Not applicable

IMDG-Code

UN number : Not applicable
 Proper shipping name : Not applicable
 Class : Not applicable
 Subsidiary risk : Not applicable
 Packing group : Not applicable
 Labels : Not applicable
 EmS Code : Not applicable
 Marine pollutant : Not applicable

TALON RAT & MOUSE KILLER GRAIN

Version 1.1 Revision Date: 02.08.2023 SDS Number: S00056616709 This version replaces all previous versions.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations**ADG**

UN number : Not applicable
Proper shipping name : Not applicable
Class : Not applicable
Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable
Hazchem Code : Not applicable

Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Standard for the Uniform Scheduling of Medicines and Poisons : Schedule 6

Prohibition/Licensing Requirements : There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.
Product Registration Number : APVMA Approval No. 92320

SECTION 16. OTHER INFORMATION

Revision Date : 02.08.2023
Date format : dd.mm.yyyy

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International

TALON RAT & MOUSE KILLER GRAIN

Version	Revision Date:	SDS Number:	This version replaces all previous versions.
1.1	02.08.2023	S00056616709	

Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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