1. PRODUCT AND COMPANY INFORMATION

Chemical/Product Name:	**McGregor's Derris Dust**
Recommended uses:	Bait ready to use for the control of slugs and snails
Restrictions on Use/Supply	Outdoor use only
Molecular Formula:	Mixture
Supplier:	Amalgamated Hardware Merchants Ltd (AHM)
Street Address:	8 Hautu Drive, Wiri, Manukau, New Zealand
Postal Address:	PO Box 97162, Manukau 2241, New Zealand
Telephone	+64 9 251 1310
Email:	info@ahm.co.nz
Website:	www.ahm.co.nz
Emergency Contact Numbers:	0800 764 766 (0800 POISON)
National Poisons Centre:	0800 764 766 (0800 POISON)

2. HAZARDS IDENTIFICATION

HSNO Hazard Classification	Transport of Dangerous Goods Pictogram	GHS Pictogram	Signal word	Hazard statement code	Precautionary statement codes			
					Prevention	Response	Storage	Disposal
Aquatic Acute/Chronic Cat 1			Warning	H400/410	P103 P273	P391	No storage statements	P501

Signal word: WARNING

Dangerous Goods: Environmentally Hazardous Substance, Solid, N.O.S. (Class 9)

Packaging Group: III

GHS Codes: H400 / H410

Pictograms:



Hazard Statement: H400 / H410: Very toxic to aquatic life with short- and long-lasting effects.

Precautionary Statements:

P101: If medical advice is needed, have product container or label at hand

P102: Keep out of reach of children

P103: Read label before use

P273: Avoid release to the aquatic environment.

P391: Collect spillage

3. COMPOSITION/INFORMATION ON INGREDIENTS

Appearance: White or beige, fine powder

Ingredients:

Ingredients	CAS #	Content %
Rotenone	83-79-4	<1.0 %
Non specified non-hazardous ingredients	NA (Mixture)	to 100 %

4. FIRST AID MEASURES

General information: In case of accident, or if you feel unwell, seek medical advice (show the label where possible).

Ingestion: Rinse mouth. If you feel unwell, seek medical advice or call NZ Poisons Centre on 0800 764 766 and have product label at hand.

Eye Contact: Unlikely to cause eye irritancy. If irritation develops rinse eyes with running water.

Skin Contact: Unlikely to cause skin irritation. If irritation develops seek medical advice (show the label where possible).

Inhalation: Avoid breathing dust If medical advice is needed have product label at hand.

Advice for Medical Doctors: Treat symptomatically.

5. FIRE FIGHTING MEASURES

HAZCHEM code: 2Z

Specific Hazards: None. Minimise the use of water to prevent environmental contamination.

Suitable Extinguishing Media: Appropriate fire extinguishers are Water mist or spray, CO_2, Powder or Alcohol resistant foam. Use extinguishing media appropriate to the surrounding conditions.

5. FIRE FIGHTING MEASURES

Fire Fighting Advice:	Fire fighters should wear breathing apparatus (AS/NZS 1715/1716). Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or extinguishing agent and spillage safely later.
Hazardous Products of Combustion:	Carbon monoxide (CO), Carbon dioxide (CO_2) and smoke.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:	Avoid breathing dust. Ensure adequate ventilation. For personal protection see section 8.
Environmental precautions:	Prevent leakage or spillage.
Minor Spills (Up to 20 kg):	Very toxic to aquatic life. Contain spill and collect using vacuum. DO NOT sweep dry powder, moisten with a small amount of water.
Major Spills (more than 20 kg):	Minimise spread. Contain spill and collect. DO NOT sweep dry powder, moisten with a small amount of water. Do not allow product or washings to enter the waterways or sewer. If spill does enter waterway contact local authority. Collect in an appropriate sealable container for disposal in an approved landfill or incinerate at an authorised installation.

7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid inhaling dust. When handling product in drums, safety footwear should be worn, and proper handling equipment should be used. Always use good personal hygiene procedures when handling this product. Wash hands and face before eating, drinking, or smoking. Clean

7. HANDLING AND STORAGE

	equipment after use. Do not contaminate drains, sewers, or waterways.
Conditions for safe Storage including incompatibilities:	Keep out of the reach of children. Store in original container in a cool, dry, ventilated place, away from direct heat of sunlight. Store away from foodstuffs, children, and animals. Do not allow product to get wet in storage. Minimum shelf life: 2 years.
Protection against fire and explosion:	Keep away from heat sources although the product has no flammability. The product is not explosive. Keep away from oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:	See 'Exposure limits' below (Workplace Exposure Standards and Biological Exposure Indices, November 2020, edition12-1)
Engineering Controls:	No special requirements when used as recommended.
Hand protection:	Disposable rubber or vinyl gloves recommended when using.
Eye protection:	If there is significant potential for contact, wear dust goggles.
Body protection:	Skin protection not ordinarily required beyond standard issue work clothes.
Respiratory Protection:	A dust mask is recommended for use.
General safety and hygiene measures:	Handle in accordance with good hygiene and safety practice. Wearing of closed work clothing is recommended. Minimise contact with the skin, eyes, and clothing. Store work clothing separately.
Environmental Exposure Controls:	Avoid release to the environment. For bulk storage, an environmental risk assessment must be made to ensure compliance with local environmental legislation.

Exposure Standards:

		TWA		STEL	
Substance	**Cas #**	**ppm**	**mg/m^3**	**ppm**	**mg/m^3**
Rotenone (commercial)	83-79-4		5		
Respirable dust (not otherwise classified)			3		

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White beige coloured fine powder
Odour:	Odourless
Odour Threshold:	No data
pH Value:	Not applicable
Melting/freezing point:	Not applicable
Boiling point (range):	Not applicable
Flash Point:	Will not flash
Flammability:	Not flammable
Explosive limits:	Not explosive
Vapour pressure:	Not applicable
Vapour density:	Not volatile
Bulk density:	0.47 g/cm^3
Solubility:	Insoluble
Partition coefficient:	No data
Auto-ignition temperature:	No data
Decomposition temperature:	No data
Viscosity:	Not applicable

10. STABILITY AND REACTIVITY

Stability & Chemical reactivity:	Stable under normal conditions of use. Not explosive or oxidising.
Chemical/material Incompatibilities	Oxidising agents (hypochlorite, peroxides) and strong alkalis.
Conditions to be avoid:	Avoid excessive heating. Do not allow product to get wet
Thermal Decomposition:	Hazardous products of combustion; see section 5 for details.

11. TOXICOLOGICAL INFORMATION

Hazard Classes	Product not classified as toxic
Acute Toxicity (active):	Acute oral LD_{50} = 60 mg/kg (rat). Acute dermal LD_{50} = 100 mg/kg (rabbit)
Aspiration hazard	May cause irritation on inhalation of dust
Skin corrosion/irritation:	Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.
Serious eye damage/irritation:	May cause eye irritation due to properties of the product
Respiratory or skin sensitisation:	May cause skin sensitisation and/or contact dermatitis
Germ cell mutagenicity:	No data available
Carcinogenicity:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.
Reproductive toxicity:	This product is not expected to cause reproductive or developmental effects.
Specific organ toxicity – single exposure:	No data

11. TOXICOLOGICAL INFORMATION

Specific organ toxicity – repeated exposure (active):	May cause reproductive weight loss in rats through repeated exposure
Narcotic effects:	No data available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

12. ECOTOXICITY INFORMATION

Ecological information of substance:	Very Toxic to aquatic life with short- and long-term effects. Do not contaminate waterways, sewers, or drains when using product or packaging. Active: Atlantic Salmon, LC50 (96 hr) 0.21 mg/L Water Flea, EC50 (48 hr) 0.0037 mg/L
Bioaccumulation potential:	Not expected to bioaccumulate
Soil Toxicity and degradability:	Rapidly degraded
Mobility in soil	V. Low.

13. DISPOSAL CONSIDERATIONS

Waste treatment – recommendation:	Any appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Notice 2017.
Container Disposal:	Empty containers can be recycled or sent to landfill after cleaning if in compliance with local and national regulations. DO NOT reuse containers.
Methods of disposal to avoid	Do not empty down stormwater system

14. TRANSPORT INFORMATION

Road, Rail; Marine and Air:

UN Number:	3077
UN Dangerous Goods Class:	Ecotoxic (Class 9)
Hazchem Code:	2Z
UN Packaging Group:	III
UN Proper Shipping Name:	Environmentally Hazardous Substance, Solid, N.O.S. (Rotenone)
Segregation:	Not applicable

15. N.Z. REGULATORY INFORMATION

HSNO approval Number:	*HSR00194*
GHS Classifications:	*From page 2*
HSNO Controls:	*Refer to HSR00194*
Other Controls	Not a tracked substance. Must be under the control or supervision of Certified Handler if applied in a wide and dispersive manner. Secondary containment and an Emergency Response plan are required when 100kg or more present on site.

16. OTHER INFORMATION

SDS date of preparation: 20 / 01 / 2022

SDS date of revision: 20 / 11 / 2027

All Safety Data Sheets are subject to review and should not be left longer than five years before and update is obtained.

For further information visit the Amalgamated Hardware Merchants Ltd (AHM) web site, www.ahm.co.nz, or contact the supplier of the starting materials.

The information in this document should be made available to all who may handle the product. For proper and safe use of this product, please refer to the product label.

This information is based on data believed by Amalgamated Hardware Merchants Ltd (AHM) to be accurate at the time of writing. It is given in good faith, but no warranty expressed or implied is made as to its accuracy, completeness or otherwise. Every person dealing with the materials referred herein does so at their own risk absolutely and must make independent determinations of suitability and completeness of information from all sources to ensure their proper use.

Attention is drawn to the application and safety instructions set out on the label. This sheet is not a substitute for safety, hazard or application instructions set out on the label. As Amalgamated Hardware Merchants Ltd (AHM) and their distributors have no control over storage or use of this product no liability for accident or damage will be accepted.

Abbreviations:

ADR: European agreement concerning the international carriage of dangerous goods by Road.

CLP: Classification, Labelling and Packaging

IMDG: International Maritime Dangerous Goods.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organisation

RID: Regulations concerning the International carriage of Dangerous goods by rail.

GHS: Global Harmonized System

HSNO: Hazardous Substances and New Organisms Act and Regulations

EU: European Union

EC: European Commission

TLV: Threshold Limit Value

TWA: Time Weighted Average

STEL: Short-Term Exposure Limit

H Phrase: Hazard phrase

P Phrase: Precautionary phrase