

# **Troy Laboratories Pty Ltd**

Chemwatch: **5398-31** Version No: **5.1** Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements

# SECTION 1 Identification of the substance / mixture and of the company / undertaking

# **Product Identifier**

Product name	lium Pyraquantal Allwormer tablets for dogs	
Chemical Name	Applicable	
Synonyms	APVMA numbers: 48495, 60402	
Chemical formula	Not Applicable	
Other means of identification	Not Available	

#### Relevant identified uses of the substance or mixture and uses advised against

	For the control of Roundworms (Toxocara canis and Toxocara leonina), Whipworms (Trichuris vulpis), Hookworms (Ancylostoma
Relevant identified uses	caninum, Ancylostoma braziliense and Uncinaria stenocephala), and Tapeworms (Dipylidium caninum, Taenia ovis, Taenia
	hydatigena, Taenia pisiformis) and the HYDATID Tapeworm (Echinococcus granulosus). To be used as directed on product label.

#### Details of the manufacturer or supplier of the safety data sheet

Registered company name	Troy Laboratories Pty Ltd	
Address	Glendenning Road Glendenning NSW 2761 Australia	
Telephone	808 3600	
Fax	2 9677 9300	
Website	www.Troylab.com.au	
Email	admin@troylab.com.au	

# Emergency telephone number

Association / Organisation	Ixom Emergency Response Service	
Emergency telephone number(s)	1800 033 111 (24 hours)	
Other emergency telephone number(s)	Not Available	

# **SECTION 2 Hazards identification**

# Classification of the substance or mixture

Poisons Schedule	S5
Classification <sup>[1]</sup>	Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

# Label elements

Hazard pictogram(s)



Chemwatch Hazard Alert Code: 2

Issue Date: 10/03/2023

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L.GHS.AUS.EN.E

Signal word Warning

# Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

#### Precautionary statement(s) Prevention

P271	Use only outdoors or in a well-ventilated area.	
P261	Avoid breathing dust/fumes.	
P280	<b>0</b> Wear protective gloves, protective clothing, eye protection and face protection.	
P264	Wash all exposed external body areas thoroughly after handling.	

# Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.		
P337+P313	If eye irritation persists: Get medical advice/attention.		
P302+P352	IF ON SKIN: Wash with plenty of water.		
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
P332+P313	If skin irritation occurs: Get medical advice/attention.		
P362+P364	Take off contaminated clothing and wash it before reuse.		

### Precautionary statement(s) Storage

P405	Store locked up.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	

# Precautionary statement(s) Disposal

P501

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

# **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

# Mixtures

CAS No	%[weight]	Name
7757-93-9	10-30	calcium phosphate, dibasic
55268-74-1	1-5	praziquantel
557-04-0	1-5	magnesium stearate
Not Available	balance	Ingredients determined not to be hazardous
Legend:	Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available	

# **SECTION 4 First aid measures**

#### Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	If fumes or combustion products are inhaled remove from contaminated area.

	<ul> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>
Ingestion	<ul> <li>For advice, contact a Poisons Information Centre or a doctor at once.</li> <li>Urgent hospital treatment is likely to be needed.</li> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Transport to hospital or doctor without delay.</li> </ul>

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5 Firefighting measures**

# Extinguishing media

- Water spray or fog.
- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

# Special hazards arising from the substrate or mixture

Fire Incompatibility Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ig result	inition may
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### Advice for firefighters

avice for firefighters	
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Combustible solid which burns but propagates flame with difficulty; it is estimated that most organic dusts are combustible (circa 70%) - according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions.</li> <li>Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions).</li> <li>Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion. Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust (420 micron or less) may burn rapidly and fiercely if ignited - particles exceeding this limit will generally not form flammable dust clouds; one initiated, however, larger particles up to 1400 microns diameter will contribute to the propagation of an explosive limit (UEL) and upper explosive limit (UEL) are applicable to dust clouds but only the LEL is of practical use; - this is because of the inherent difficulty of achieving homogeneous dust clouds at high temperatures (for dusts the LEL is often called the "Minimum Explosible Concentration", MEC).</li> <li>When processed with flammable liquids/vapors/mists.ignitable (hybrid) mixtures may be formed with combustible dusts. Ignitable mixture will be lower than the individual LELs for the vapors/mists or dusts.</li> <li>A dust explosion may release of large quantities of gaseous products; this in turn creates a subsequent pressure rise of explosions fave erasple of damaging plant and buildings and injuring people.</li> <li>Usually the initial or primary explosion takes place in a confined space such as plant or machinery, and can be of sufficient force to damage or rupture the plant. If the</li></ul>

	<ul> <li>A sudden release of statically charged materials from storage or process equipment, particularly at elevated temperatures and/ or pressure, may result in ignition especially in the absence of an apparent ignition source.</li> <li>One important effect of the particulate nature of powders is that the surface area and surface structure (and often moisture content) can vary widely from sample to sample, depending of how the powder was manufactured and handled; this means that it is virtually impossible to use flammability data published in the literature for dusts (in contrast to that published for gases and vapours).</li> <li>A utoignition temperatures are often quoted for dust clouds (minimum ignition temperature (MIT)) and dust layers (layer ignition temperature (LIT)); LIT generally falls as the thickness of the layer increases.</li> <li>Combustion products include:</li> <li>carbon monoxide (CO)</li> <li>carbon dioxide (CO2)</li> <li>nitrogen oxides (NOx)</li> <li>phosphorus oxides (POx)</li> <li>sulfur oxides (SOx)</li> <li>metal oxides</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> </ul>
HAZCHEM	Not Applicable

# **SECTION 6 Accidental release measures**

# Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up waste regularly and abnormal spills immediately.</li> <li>Avoid breathing dust and contact with skin and eyes.</li> <li>Wear protective clothing, gloves, safety glasses and dust respirator.</li> <li>Use dry clean up procedures and avoid generating dust.</li> <li>Vacuum up or sweep up. NOTE: Vacuum cleaner must be fitted with an exhaust micro filter (H-Class HEPA type) (consider explosion-proof machines designed to be grounded during storage and use). H-Class HEPA filtered industrial vacuum cleaners should NOT be used on wet materials or surfaces.</li> <li>Dampen with water to prevent dusting before sweeping.</li> <li>Place in suitable containers for disposal.</li> </ul>
Major Spills	<ul> <li>Moderate hazard.</li> <li>CAUTION: Advise personnel in area.</li> <li>Alert Emergency Services and tell them location and nature of hazard.</li> <li>Control personal contact by wearing protective clothing.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Recover product wherever possible.</li> <li>IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. IF WET: Vacuum/shovel up and place in labelled containers for disposal.</li> <li>ALWAYS: Wash area down with large amounts of water and prevent runoff into drains.</li> <li>If contamination of drains or waterways occurs, advise Emergency Services.</li> </ul>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

# **SECTION 7 Handling and storage**

#### Precautions for safe handling

Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT allow material to contact humans, exposed food or food utensils.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul>
Other information	Store in original containers.

Keep containers securely sealed.
Store in a cool, dry area protected from environmental extremes.
Store away from incompatible materials and foodstuff containers.
Protect containers against physical damage and check regularly for leaks.
Observe manufacturer's storage and handling recommendations contained within this SDS.
For major quantities:
Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including
stormwater, ground water, lakes and streams}.
• Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require
consultation with local authorities.

#### Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Store in a dark glass or other suitable light resistant container</li> <li>Polyethylene or polypropylene container.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	<ul> <li>Avoid reaction with oxidising agents</li> <li>Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.</li> <li>water</li> </ul>

# **SECTION 8 Exposure controls / personal protection**

#### **Control parameters**

# Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	magnesium stearate	Stearates	10 mg/m3	Not Available	Not Available	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Ingredient Original IDLH			Revised II	Revised IDLH		
	Not Available					
calcium phosphate, dibasic	Not Available				Not Availal	ble
calcium phosphate, dibasic praziquantel	Not Available Not Available				Not Availal	

# MATERIAL DATA

# Exposure controls

Appropriate engineering controls	Enclosed local exhaust ventilation is required at points of du HEPA terminated local exhaust ventilation should be consid Barrier protection or laminar flow cabinets should be consid A fume hood or vented balance enclosure is recommended When handling quantities up to 500 gram in either a standa per hour) is preferred. Quantities up to 1 kilogram may requ cabinet, or approved vented enclosures. Quantities exceeding containment laboratory using appropriate barrier/ containment	ered at point of generation of dust, fumes or v ered for laboratory scale handling. for weighing/ transferring quantities exceeding rd laboratory with general dilution ventilation ( ire a designated laboratory using fume hood, ng 1 kilogram should be handled in a designa	g 500 mg. e.g. 6-12 air changes biological safety		
	Manufacturing and pilot plant operations require barrier/ cor Barrier/ containment technology and direct coupling (totally the room) typically use double or split butterfly valves and h powder containment booths). Glove bags, isolator glove boo handling areas is required. Fume-hoods and other open-face containment devices are are achieved. Partitions, barriers, and other partial containm uncontrolled areas. For non-routine emergencies maximum generated in the workplace possess varying "escape" veloc circulating air required to effectively remove the contaminar	ntainment and direct coupling technologies. enclosed processes that create a barrier betwy ybrid unidirectional airflow/ local exhaust venti systems are optional. HEPA filtration of exha acceptable when face velocities of at least 1 m nent technologies are required to prevent migr local and general exhaust are necessary. Air ities which, in turn, determine the "capture vel	veen the equipment and ilation solutions (e.g. nust from dry product n/s (200 feet/minute) ration of the material to contaminants		
	Type of Contaminant:		Air Speed:		
	solvent, vapours, etc. evaporating from tank (in still air) 0.25-0.5 m/s 100 f/min.)				
	aerosols, fumes from pouring operations, intermittent cont (released at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)			
	direct spray, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion) 1-2.5 m/s (200-50 f/min.)				
	Within each range the appropriate value depends on:				
	Lower end of the range	Upper end of the range			
	1: Room air currents minimal or favourable to capture 1: Disturbing room air currents				

	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity				
	3: Intermittent, low production.	3: High production, heavy use				
	4: Large hood or large air mass in motion	4: Small hood-local control only				
	Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2.5 m/s (200-500 f/min.) for extraction of gases discharged 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used. The need for respiratory protection should also be assessed where incidental or accidental exposure is anticipated: Dependent on levels of contamination, PAPR, full face air purifying devices with P2 or P3 filters or air supplied respirators should be evaluated. The following protective devices are recommended where exposures exceed the recommended exposure control guidelines by factors of: 10; high efficiency particulate (HEPA) filters or cartridges 10-25; loose-fitting (Tyvek or helmet type) HEPA powered-air purifying respirator. 25-50; a full face-piece negative pressure respirator with HEPA filters 50-100; tight-fitting, full face-piece HEPA PAPR 100-1000; a hood-shroud HEPA PAPR or full face-piece supplied air respirator operated in pressure demand or other positive pressure mode.					
Individual protection measures, such as personal protective equipment						
Eye and face protection	<ul> <li>When handling very small quantities of the material eye protection may not be required.</li> <li>For laboratory, larger scale or bulk handling or where regular exposure in an occupational setting occurs: <ul> <li>Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]</li> <li>Face shield. Full face shield may be required for supplementary but never for primary protection of eyes.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.</li> <li>Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].</li> </ul> </li> </ul>					
Skin protection	See Hand protection below					
Hands/feet protection	<ul> <li>Rubber gloves (nitrile or low-protein, powder-free latex, latex/ nitrile). Employees allergic to latex gloves should use nitrile gloves in preference.</li> <li>Double gloving should be considered.</li> <li>PVC gloves.</li> <li>Change gloves frequently and when contaminated, punctured or torn.</li> <li>Wash hands immediately after removing gloves.</li> <li>Protective shoe covers. [AS/NZS 2210]</li> <li>Head covering.</li> <li>Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.</li> <li>polychloroprene.</li> <li>nitrile rubber.</li> <li>butyl rubber.</li> <li>fluorocaoutchouc.</li> <li>polyvinyl chloride.</li> <li>Gloves should be examined for wear and/ or degradation constantly.</li> </ul>					
Body protection	See Other protection below					
Other protection	<ul> <li>For quantities up to 500 grams a laboratory coat may be suitable.</li> <li>For quantities up to 1 kilogram a disposable laboratory coat or coverall of low permeability is recommended. Coveralls should be buttoned at collar and cuffs.</li> <li>For quantities over 1 kilogram and manufacturing operations, wear disposable coverall of low permeability and disposable shoe covers.</li> <li>For manufacturing operations, air-supplied full body suits may be required for the provision of advanced respiratory protection.</li> <li>Eye wash unit.</li> <li>Ensure there is ready access to an emergency shower.</li> <li>For Emergencies: Vinyl suit</li> </ul>					

#### **Respiratory protection**

Type -P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

up to 10 x ES	-AUS P2	-	-PAPR-AUS / Class 1 P2
up to 50 x ES	-	-AUS / Class 1 P2	-
up to 100 x ES	-	-2 P2	-PAPR-2 P2 ^

^ - Full-face

A(AII classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

· Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.

• The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).

• Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.

• Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.

• Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

· Use approved positive flow mask if significant quantities of dust becomes airborne.

 $\cdot$  Try to avoid creating dust conditions.

# **SECTION 9** Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance Yellow round tablet with meaty odour; soluble in water.

Physical state	Manufactured	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n- octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available

#### **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7

Hazardous decomposition See section 5 products

**SECTION 11 Toxicological information** 

Information	on	toxicological effects	
mormation	011		

formation on toxicologic	al effects			
a) Acute Toxicity	Based on available data, the classification criteria are not met.			
b) Skin Irritation/Corrosion	There is sufficient evidence to classify this material as skin corrosive or irritating.			
c) Serious Eye Damage/Irritation	There is sufficient evidence to classify this material as eye damaging or irritating			
d) Respiratory or Skin sensitisation	Based on available data, the classification criteria are not met.	Based on available data, the classification criteria are not met.		
e) Mutagenicity	Based on available data, the classification criteria are not met.			
f) Carcinogenicity	Based on available data, the classification criteria are not met.			
g) Reproductivity	Based on available data, the classification criteria are not met.			
h) STOT - Single Exposure	There is sufficient evidence to classify this material as toxic to sp	pecific organs through single exposure		
i) STOT - Repeated Exposure	Based on available data, the classification criteria are not met.			
j) Aspiration Hazard	Based on available data, the classification criteria are not met.			
Inhaled	Evidence shows, or practical experience predicts, that the material produces irritation of the respiratory system, in a substantial number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.			
Ingestion	Accidental ingestion of the material may be damaging to the hea	Ith of the individual.		
Skin Contact	Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis. The material may accentuate any pre-existing dermatitis condition Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.			
Eye	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.			
Chronic	Long-term exposure to respiratory irritants may result in disease problems.	of the airways involving difficult breathing and related systemic		
	τοχιζιτγ	IRRITATION		
Ilium Pyraquantal Allwormer tablets for dogs	Not Available	Not Available		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
calcium phosphate,	Dermal (rabbit) LD50: >7940 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>		
dibasic	Inhalation (Rat) LC50: >2.6 mg/l4h <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>		
	Oral (Rat) LD50: >10000 mg/kg <sup>[2]</sup>			
	ΤΟΧΙΟΙΤΥ	IRRITATION		
praziquantel	Oral (Dog) LD50; >200 mg/kg <sup>[2]</sup>	Not Available		
magnesium stearate				
magnosium stearate	ΤΟΧΙΟΙΤΥ	IRRITATION		

	Oral (Rat) LD50: >10000 mg/kg <sup>[2]</sup>	Not Available	
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances		
CALCIUM PHOSPHATE, DIBASIC	for calcium: Toxicity from calcium is not common because the Therefore, short-term intake of large amounts of an increased risk of kidney stones . However, mo or when calcium is combined with increased and sometimes found after excessive intravenous add in tissues and by elevated blood calcium levels (I as abnormally high amounts of parathyroid horm resulting hypercalcaemia can cause kidney stone secreting abnormal proteins that act like PTH or I levels of calcium can result in appetite loss, naus for calcium chloride: <b>Acute toxicity:</b> The acute oral toxicity of calcium rats, and 500-1000 mg/kg bw in rabbits. The acut substance or its high-concentration solutions to the large single doses induce nausea and vomiting. significant change was found by gross necropsy Hypercalcaemia may occur only when there exists primary hyperthyroidism. Irritation/corrosiveness studies conducted under skin but severely irritating to eyes of rabbits. Prol resulted in considerable skin irritation, however. I incidental contact with the substance or its high- <b>Repeat dose toxicity:</b> A limited oral repeated do 1000-2000 mg/kg bw/day for 12 months. Calcium than 1000 mg each of the ions is recommended. necessary by JECFA (Joint FAO/WHO Expert Co <b>Genotoxicity:</b> Genetic toxicity of calcium chlorid aberration test. <b>Reproductive and developmental toxicity:</b> No equivalent to an OECD Guideline study, on the o mg/kg bw/day (mice), 176 mg/kg bw/day (rats) an	calcium does not generally prod ore severe toxicity can occur who punts of vitamin D, which increase ministration of calcium. Toxicity in pypercalcaemia). However, hype one (PTH). Usually, under these as and abdominal pain. Some car by invading and killing bone cell ea , vomiting, abdominal pain, co or chloride is low: LD50 in mice is the oral toxicity is attributed to the me gastrointestinal tract. In huma The dermal acute toxicity is neglexamination except skin lesions to other factors that alter calcium OECD test guidelines indicate the onged exposure and application mitting effect of the substance concentration solutions. se toxicity study shows no adver a and chloride are both essentia The establishment of the ADI for minittee on Food Additives) e was negative in the bacterial r reproductive toxicity study has I ther hand, reveals no toxic effect	uce any ill effects aside from <b>constipation</b> and en excess calcium is ingested over long periods, see calcium absorption. Calcium toxicity is also s manifested by abnormal deposition of calcium ercalcaemia is often due to other causes, such a circumstances, bone density is lost and the ancers can also cause hypercalcaemia, either by s causing them to release calcium. Very high confusion, seizures, and even coma. 1940-2045 mg/kg bw, 3798-4179 mg/kg bw in e severe irritating property of the original ans, however, acute oral toxicity is rare because igible: LD50 in rabbits >5000 mg/kg bw. No at or near the site of administration. In homeostasis, such as renal inefficiency and hat calcium chloride is not/slightly irritating to of moistened material or concentrated solutions was observed in human skin injuries caused by rise effect of calcium chloride on rats fed on I nutrients for humans and a daily intake of more r calcium chloride has not been deemed nutation tests and the mammalian chromosome been reported. A developmental toxicity study
PRAZIQUANTEL	* Bayer ADI: 0.02 mg/kg/day NOEL: 20 mg/kg/da NOTE: Substance has been shown to be mutage or change to cellular DNA.	-	ongs to a family of chemicals producing damage
MAGNESIUM STEARATE	Fatty acid salts are of low acute toxicity. Their skin and eye irritation potential is chain length dependent and decreases with increasing chain length - they are poorly absorbed through the skin nor are they skin sensitisers. The available repeated dose toxicity data demonstrate the low toxicity of the fatty acids and their salts. Also, they are not considered to be mutagenic, genotoxic or carcinogenic, and are not reproductive or developmental toxicants. Accidental ingestion of fatty acid salt containing detergent products is not expected to result in any significant adverse health effects. This assessment is based on toxicological data demonstrating the low acute oral toxicity of fatty acid salts and the fact that not a single fatality has been reported in the UK following accidental ingestion of detergents containing fatty acid salts. Also in a report published by the German Federal Institute for Health Protection of Consumers and Veterinary Medicine, detergent products were not mentioned as dangerous products with a high incidence if poisoning. The estimated total human exposure to fatty acid salts, from the different exposure scenarios for the handling and use of detergent products containing fatty acid salts, showed a margin of exposure (MOE) of 258,620. This extremely large MOE is large enough to be reassuring with regard to the relatively small variability of the hazard data on which it is based. Also, in the UK, the recommended dietary fatty acid intake by the Department of Health is about 100 g of fatty acids per day or 1.7 g (1700 mg) of fatty acid salts in household cleaning products. Based on the available data, the use of fatty acid salts in household cleaning products. Based on the available data, the use of fatty acid salts in household cleaning products. Based on the available data, the use of fatty acid salts in household cleaning products.		
CALCIUM PHOSPHATE, DIBASIC & MAGNESIUM STEARATE	Asthma-like symptoms may continue for months allergic condition known as reactive airways dysf highly irritating compound. Main criteria for diagn individual, with sudden onset of persistent asthm irritant. Other criteria for diagnosis of RADS inclu bronchial hyperreactivity on methacholine challer eosinophilia. RADS (or asthma) following an irrita and duration of exposure to the irritating substan- of exposure due to high concentrations of irritating	unction syndrome (RADS) which osing RADS include the absence a-like symptoms within minutes de a reversible airflow pattern o nge testing, and the lack of mini- ting inhalation is an infrequent ce. On the other hand, industria	h can occur after exposure to high levels of e of previous airways disease in a non-atopic to hours of a documented exposure to the n lung function tests, moderate to severe mal lymphocytic inflammation, without disorder with rates related to the concentration of l bronchitis is a disorder that occurs as a result
	ceases. The disorder is characterized by difficulty	/ breathing, cough and mucus p	roduction.
Acute Toxicity	ceases. The disorder is characterized by difficulty	/ breathing, cough and mucus p Carcinogenicity	roduction.

Serious Eye Damage/Irritation	*	STOT - Single Exposure	*
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
Legend: X − Data either not available or does not fill the criteria for classification → − Data available to make classification			

# **SECTION 12 Ecological information**

# Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
Ilium Pyraquantal Allwormer tablets for dogs	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	>2.9mg/l	2
calcium phosphate, dibasic	EC50(ECx)	48h	Crustacea	>2.9mg/l	2
ubasic	EC50	72h	Algae or other aquatic plants	>4.4mg/l	2
	LC50	96h	Fish	>13.5mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
praziquantel	LC50	96h	Fish	22.17- 38.51mg/l	4
	NOEC(ECx)	504h	Fish	24.7mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
magnesium stearate	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:		, , ,	e ECHA Registered Substances - Ecotoxicologic Data 5. ECETOC Aquatic Hazard Assessment Da	,	-

#### DO NOT discharge into sewer or waterways.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

# **Bioaccumulative potential**

Ingredient	Bioaccumulation
	No Data available for all ingredients
Mobility in soil	
Ingredient	Mobility

# **SECTION 13 Disposal considerations**

No Data available for all ingredients

aste treatment methods	DO NOT allow wash water from cleaning or process equipment to enter drains.
	<ul> <li>It may be necessary to collect all wash water for treatment before disposal.</li> </ul>
	In all cases disposal to sever may be subject to local laws and regulations and these should be considered first.
	<ul> <li>Where in doubt contact the responsible authority.</li> </ul>
Product / Packaging	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> </ul>
disposal	Return to supplier for reuse/ recycling if possible.
	Otherwise:
	If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to
	store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
	Where possible retain label warnings and SDS and observe all notices pertaining to the product.

#### **SECTION 14 Transport information**

#### Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

#### Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### 14.7. Maritime transport in bulk according to IMO instruments

#### 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
calcium phosphate, dibasic	Not Available
praziquantel	Not Available
magnesium stearate	Not Available

#### 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
calcium phosphate, dibasic	Not Available
praziquantel	Not Available
magnesium stearate	Not Available

#### **SECTION 15 Regulatory information**

#### Safety, health and environmental regulations / legislation specific for the substance or mixture

#### calcium phosphate, dibasic is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

#### praziquantel is found on the following regulatory lists

Australia Chemicals with non-industrial uses removed from the Australian Inventory of Chemical Substances (old Inventory) Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

#### magnesium stearate is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

#### **Additional Regulatory Information**

Not Applicable

#### **National Inventory Status**

National Inventory	Status		
Australia - AIIC / Australia Non-Industrial Use	Yes		
Canada - DSL	No (praziquantel)		
Canada - NDSL	No (calcium phosphate, dibasic; praziquantel; magnesium stearate)		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	Yes		
Japan - ENCS	No (praziquantel)		
Korea - KECI	No (praziquantel)		
New Zealand - NZIoC	Yes		

National Inventory	Status		
Philippines - PICCS	Yes		
USA - TSCA	TSCA Inventory 'Active' substance(s) (calcium phosphate, dibasic; magnesium stearate); No (praziquantel)		
Taiwan - TCSI	Yes		
Mexico - INSQ	No (praziquantel)		
Vietnam - NCI	Yes		
Russia - FBEPH	Yes		
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.		

#### **SECTION 16 Other information**

Revision Date	10/03/2023
Initial Date	30/04/2020

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
4.1	23/12/2022	Classification review due to GHS Revision change.
5.1	10/03/2023	Classification change due to full database hazard calculation/update.

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### **Definitions and abbreviations**

- PC TWA: Permissible Concentration-Time Weighted Average
- PC STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit.
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- MARPOL: International Convention for the Prevention of Pollution from Ships
- IMSBC: International Maritime Solid Bulk Cargoes Code
- IGC: International Gas Carrier Code
- IBC: International Bulk Chemical Code
- AIIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European INventory of Existing Commercial chemical Substances
- ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas

- NCI: National Chemical Inventory
- FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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