AHD LTD

Chemwatch: **7925-52** Version No: **2.1** Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements Issue Date: **11/12/2024** Print Date: **08/01/2025** L.GHS.AUS.EN.E

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

Product Identifier

Product name	Anthem Sheep Hi Min
Chemical Name	Not Applicable
Synonyms	Anthem
Chemical formula	Not Applicable
Other means of identification	Not Available

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

Relevant identified uses	Sheep drench.
	Use according to manufacturer's directions.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	AHD LTD
Address	1229 Maraekakaho Road Longlands, Hastings 4175 New Zealand
Telephone	06 873 3611
Fax	Not Available
Website	www.animalhealthdirect.co.nz
Email	sales@ahdltd.co.nz

Emergency telephone number

Association / Organisation	Richard Kettle
Emergency telephone number(s)	+6468733611 (Mon-Fri 8am to 5pm; WST)
Other emergency telephone number(s)	Not Available

SECTION 2 Hazards identification

Classification of the substance or mixture

Poisons Schedule	S6
Classification ^[1]	Sensitisation (Skin) Category 1, Germ Cell Mutagenicity Category 2, Reproductive Toxicity Category 1B, Hazardous to the Aquatic Environment Long-Term Hazard 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)	
Signal word	Danger

H317	May cause an allergic skin reaction.	
H341	Suspected of causing genetic defects.	
H360D	May damage the unborn child.	
H412	Harmful to aquatic life with long lasting effects.	

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P280	Wear protective gloves and protective clothing.
P261	Avoid breathing mist/vapours/spray.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.

Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.	
P302+P352	IF ON SKIN: Wash with plenty of water.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	

Precautionary statement(s) Storage

P405 Store locked up.

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
16595-80-5	1-10	levamisole hydrochloride
54965-21-8	1-10	albendazole
13410-01-0	<1	sodium selenate, anhydrous
Not Available	balance	Ingredients determined not to be hazardous
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	 If this product comes in contact with the eyes: Wash out immediately with fresh running water. 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. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. 			
Skin Contact	 If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. 			
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating fi procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, of mask as trained. Perform CPR if necessary. Transport to hospital, or doctor. 			
Ingestion	► IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.			
		Continued		

- For advice, contact a Poisons Information Centre or a doctor.
- Urgent hospital treatment is likely to be needed.
- In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.
- If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist.
- If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.

Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:

• INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

NOTE: Wear a protective glove when inducing vomiting by mechanical means.

Indication of any immediate medical attention and special treatment needed

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination).

For poisons (where specific treatment regime is absent):

BASIC TREATMENT

- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 L/min.
- Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock.
- Anticipate seizures.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

ADVANCED TREATMENT

- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- + Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.
- BRONSTEIN, A.C. and CURRANCE, P.L.

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

After albendazole is administered, intestinal and hepatic albendazole metabolism leads to albendazole sulfoxide (active metabolite) and albendazole sulfone (inactive metabolite) formation. The metabolism albendazole sulfoxide effects as the active substance against the worms, albendazole sulfone has no active affection

SECTION 5 Firefighting measures

Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

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 ignition may result
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Advice for firefighters

Advice for firefighters	
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	 Non combustible. Not considered a significant fire risk, however containers may burn.

Anthem	Sheen	Hi	Min
Anthon	Oneep		

HAZCHEM	Not Applicable
	carbon dioxide (CO2) nitrogen oxides (NOx) metal oxides other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes.
	Decomposes on heating and produces:

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	 Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	 Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Neutralise/decontaminate residue (see Section 13 for specific agent). Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. If contamination of drains or waterways occurs, advise emergency services.

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

SECTION 7 Handling and storage

Precautions for safe handling DO NOT allow clothing wet with material to stay in contact with skin Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Avoid contact with moisture. Avoid contact with incompatible materials. • When handling, DO NOT eat, drink or smoke Safe handling Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. • Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. • Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained. Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Other information 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.

Conditions for safe storage, including any incompatibilities

	Polyethylene or polypropylene container.
Suitable container	Packing as recommended by manufacturer.
	Check all containers are clearly labelled and free from leaks.

Storage incompatibility

Avoid reaction with oxidising agents

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	sodium selenate, anhydrous	Selenium compounds (as Se) excludir hydrogen selenide	ng	0.1 mg/m3	Not Available	Not Available	Not Available
Ingredient	Original IDLH		Revised IDLH				
levamisole hydrochloride	Not Available		Not Available				
albendazole	Not Available		Not Available				
sodium selenate, anhydrous	1 mg/m3		Not	Available			

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating Occupational Exposure Band Limit			
levamisole hydrochloride	С	> 0.1 to \leq milligrams per cubic meter of air (mg/m ³)		
albendazole	D	> 0.01 to ≤ 0.1 mg/m³		
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.			

MATERIAL DATA

Exposure controls

Exposure controls			
Appropriate engineering controls	Engineering controls are used to remove a hazard or place a engineering controls can be highly effective in protecting wor provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activit Enclosure and/or isolation of emission source which keeps a that strategically "adds" and "removes" air in the work enviro designed properly. The design of a ventilation system must re Employers may need to use multiple types of controls to pre- Local exhaust ventilation usually required. If risk of overexpo- obtain adequate protection. Supplied-air type respirator may ensure adequate protection. An approved self contained breathing apparatus (SCBA) ma Provide adequate ventilation in warehouse or closed storage "escape" velocities which, in turn, determine the "capture vel- contaminant. Type of Contaminant: solvent, vapours, degreasing etc., evaporating from tank (i	kers and will typically be independent of worker ty or process is done to reduce the risk. selected hazard "physically" away from the wo nment. Ventilation can remove or dilute an air of natch the particular process and chemical or co vent employee overexposure. sure exists, wear approved respirator. Correct be required in special circumstances. Correct f y be required in some situations. e area. Air contaminants generated in the workp ocities" of fresh circulating air required to effect	r interactions to orker and ventilation contaminant if ontaminant in use. fit is essential to fit is essential to place possess varying
	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) 200 f/min.)		
	welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)		
	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).		2.5-10 m/s (500- 2000 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 generally decreases with the square of distance from the ext extraction point should be adjusted, accordingly, after reference extraction fan, for example, should be a minimum of 1-2 m/s	raction point (in simple cases). Therefore the a nee to distance from the contaminating source.	ir speed at the The air velocity at the

	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.
Individual protection measures, such as personal protective equipment	
Eye and face protection	 Safety glasses with side shields. Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent] 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. 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].
Skin protection	See Hand protection below
Hands/feet protection	 Wear sherrical protective gloves, e.g. PVC. Wear steefy footwear or safety gumboots, e.g. Rubber NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygine is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: requency and duration of contact, effeutency and duration of contact, glove thickness and destertity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). When only brief contact is expected, a glove with a protection class of 5 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.1.0 r national equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. Contaminated gloves should be replaced. As defined in ASTM F.739-86 in any application, gloves a
Deduce 1 1	non-perfumed moisturiser is recommended.
Body protection	See Other protection below
Other protection	 Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. Eye wash unit.

Respiratory protection

Type A 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.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS	-	A-PAPR-AUS / Class 1
up to 50 x ES	-	A-AUS / Class 1	-
up to 100 x ES	-	A-2	A-PAPR-2 ^

^ - Full-face

A(All 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)

• Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.

- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Off white liquid with no odour; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	~1
Odour	No Odour	Partition coefficient n- octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Applicable	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	>100	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	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	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled	Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual.	
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.	
Skin Contact	Limited 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. 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	Although the liquid is not thought to be an irritant (as classified by transient discomfort characterised by tearing or conjunctival redn	
Chronic	Repeated or long-term occupational exposure is likely to produce systems. Strong evidence exists that the substance may cause irreversible Practical experience shows that skin contact with the material is of substances that can cause occupational asthma (also known as specific airway hyper-responsiveness via an immunological, irrita responsive, further exposure to the substance, sometimes even t symptoms can range in severity from a runny nose to asthma. No hyper-responsive and it is impossible to identify in advance who asthma in people with pre-existing air-way hyper-responsiveness respiratory sensitisers Wherever it is reasonably practicable, exposure to substances that this is not possible the primary aim is to apply adequate standard responsive. Activities giving rise to short-term peak concentrations should reac considered. Health surveillance is appropriate for all employees of cause occupational asthma and there should be appropriate considered. Health surveillance serious damage (clear functional disturbance or morphological co caused by repeated or prolonged exposure. As a rule the materia lesions. Such damage may become apparent following direct app acute (28 day) or chronic (two-year) toxicity tests. There is sufficient evidence to provide a strong presumption that toxicity, generally on the basis of: - clear results in appropriate animal studies where effects have be around the same dose levels as other toxic effects but which are effects. On the basis, primarily, of animal experiments, concern has been may produce carcinogenic or mutagenic effects; in respect of the inadequate data for making a satisfactory assessment. A number of benzimidazoles have been shown to also inhibit mar Aneugens affect cell division and the mitotic spindle apparatus re an "aneuploidy". Mitotic aneuploidy is a characteristic of many typ been shown to be genotoxic. Genotoxicity may arise as aneugen metabolites. Clastogens increase the rate of genetic mutation by specific mutagen that causes breaks in chromosomes. In anima	cumulative health effects involving organs or biochemical but non-lethal mutagenic effects following a single exposure. capable either of inducing a sensitisation reaction in a response in experimental animals. asthmagens and respiratory sensitisers) can induce a state of not or other mechanism. Once the airways have become hyper o tiny quantities, may cause respiratory symptoms. These of all workers who are exposed to a sensitiser will become are likely to become hyper-responsive. nguished from substances which may trigger the symptoms of . The latter substances are not classified as asthmagens or at can cuase occupational asthma should be prevented. When is of control to prevent workers from becoming hyper- seive particular attention when risk management is being exposed or liable to be exposed to a substance which may sultation with an occupational health professional over the three through inhalation, in contact with skin and if swallowed. human exposure to the material may result in developmental eno observed in the absence of marked maternal toxicity, or a not secondary non-specific consequences of the other toxic expressed by at least one classification body that the materia available information, however, there presently exists mmalian tubulin polymerisation and to be aneugenic <i>in vivo</i> . sulting in loss or gain of whole chromosomes, thereby inducin pes of tumorigenesis (in cancer). Several benzimidazoles have s may also be clastogens, or may produce clastogenic interfering with the function of nucleic acids. A clastogen is a exia, lethargy,pulmonary hemorrhage and oedema; hepatic an reviving treatment for parasitic infestation has resulted in ulmonary hemorrhage and oedema; hepatic and erving treatment for parasitic infestation has resulted in ulmonary hemorrhage and oedema; hepatic and epicardial y reduced leukocyte and neutrophil counts. In mice ng chronic dosing of 400 mg/kg/day.
	WARNING: Albendazole may cause birth defects, avoid all expos	ure in pregnancy
Anthem Sheep Hi Min	ΤΟΧΙΟΙΤΥ	IRRITATION

la consta a la la consta a bia stata	ΤΟΧΙΟΙΤΥ	IRRITATION
levamisole hydrochloride	Oral (Rat) LD50: 180 mg/kg ^[2]	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
albendazole	Oral (Mouse) LD50; 1500 mg/kg ^[2]	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
sodium selenate, anbydrous	141	141
,	Inhalation (Rat) LC50: >0.052<=0.51 mg/l4h ^[1]	Eye: no adverse effect observed (not irritating) ^[1]
anhydrous	Inhalation (Rat) LC50: >0.052<=0.51 mg/l4h ^[1] Oral (Rat) LD50: 1.6 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1] Skin: adverse effect observed (irritating) ^[1]
,	Oral (Rat) LD50: 1.6 mg/kg ^[2]	

LEVAMISOLE HYDROCHLORIDE	for tetramisole hydrochloride Intravenous (rabbit exposure recorded. Non-mutagenic in mammals	, , , , , , , , , , , , , , , , , , , ,	alysis, convulsions, dermatitis after systemic
ALBENDAZOLE	(-) rat LD50: 1000 mg/kg** Skin (rabbit): non irrii Exposure to the material may result in a possible This concern is raised, generally, on the basis of appropriate studies using mammalian somatic of mutagenicity studies. The following information refers to contact allerg Contact allergies quickly manifest themselves at pathogenesis of contact eczema involves a cell- skin reactions, e.g. contact urticaria, involve ant simply determined by its sensitisation potential: equally important. A weakly sensitising substanc stronger sensitising potential with which few ind noteworthy if they produce an allergic test reacti Asthma-like symptoms may continue for months allergic condition known as reactive airways dys highly irritating compound. Main criteria for diag individual, with sudden onset of persistent asthm irritant. Other criteria for diagnosis of RADS incl	tating ** Effects on embryo or fetu e risk of irreversible effects. The r f cells in vivo. Such findings are ofte gens as a group and may not be s s contact eczema, more rarely as -mediated (T lymphocytes) immur ibody-mediated immune reactions the distribution of the substance a ce which is widely distributed can ividuals come into contact. From ion in more than 1% of the persor s or even years after exposure to sfunction syndrome (RADS) which nosing RADS include the absence na-like symptoms within minutes	material may produce mutagenic effects in man en supported by positive results from in vitro specific to this product. urticaria or Quincke's oedema. The ne reaction of the delayed type. Other allergic s. The significance of the contact allergen is no and the opportunities for contact with it are be a more important allergen than one with a clinical point of view, substances are is tested. the material ends. This may be due to a non- n 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
	bronchial hyperreactivity on methacholine challe eosinophilia. RADS (or asthma) following an irrit and duration of exposure to the irritating substar of exposure due to high concentrations of irritati ceases. The disorder is characterized by difficul The 2-aminothiazole motif, is a well-recognized injury (DILI). This motif is isoelectric with 2-aminoimidazole (/ Exposure to the material for prolonged periods r	tating inhalation is an infrequent of nce. On the other hand, industrial ing substance (often particles) and ity breathing, cough and mucus pr structure alert for reactive metabo AI) which may similarly be hepato	nal lymphocytic inflammation, without tisorder with rates related to the concentration bronchitis is a disorder that occurs as a result d is completely reversible after exposure roduction. blite (RM) formation and and drug-induced liver toxic in certain presentations.
SODIUM SELENATE, ANHYDROUS	eosinophilia. RADS (or asthma) following an irrii and duration of exposure to the irritating substar of exposure due to high concentrations of irritati ceases. The disorder is characterized by difficul The 2-aminothiazole motif, is a well-recognized injury (DILI). This motif is isoelectric with 2-aminoimidazole (<i>I</i>	tating inhalation is an infrequent of nce. On the other hand, industrial ing substance (often particles) and ity breathing, cough and mucus pr structure alert for reactive metabol AI) which may similarly be hepato may cause physical defects in the muscle weakness, spasticity, card nia, specific developmental chang 3: nans.	nal lymphocytic inflammation, without tisorder with rates related to the concentration bronchitis is a disorder that occurs as a result d is completely reversible after exposure roduction. olite (RM) formation and and drug-induced liver toxic in certain presentations. e developing embryo (teratogenesis). liac EKG changes, cyanosis, lung tumours,
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ANHYDROUS Acute Toxicity Skin Irritation/Corrosion Serious Eye	eosinophilia. RADS (or asthma) following an irrii and duration of exposure to the irritating substat of exposure due to high concentrations of irritati ceases. The disorder is characterized by difficul The 2-aminothiazole motif, is a well-recognized injury (DILI). This motif is isoelectric with 2-aminoimidazole (<i>I</i> Exposure to the material for prolonged periods r Eye effects, general anaesthesia, convulsions, r diarrhoea, impaired liver function tests, leumaer The substance is classified by IARC as Group 3 NOT classifiable as to its carcinogenicity to hum Evidence of carcinogenicity may be inadequate	tating inhalation is an infrequent of nce. On the other hand, industrial ing substance (often particles) and ty breathing, cough and mucus prestructure alert for reactive metabolism of the may cause physical defects in the muscle weakness, spasticity, cardina, specific developmental changes; anans. or limited in animal testing.	nal lymphocytic inflammation, without tisorder with rates related to the concentration bronchitis is a disorder that occurs as a result d is completely reversible after exposure roduction. olite (RM) formation and and drug-induced live toxic in certain presentations. e developing embryo (teratogenesis). liac EKG changes, cyanosis, lung tumours, ges, effects on newborn recorded.

Data available to make classification

SECTION 12 Ecological information

Foxicity					
	Endpoint	Test Duration (hr)	Species	Value	Source
Anthem Sheep Hi Min	Not Available	Not Available	Not Available	Not Available	Not Available

	Endpoint	Test Duration (hr)	Species	Value	Source
evamisole hydrochloride	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
albendazole	EC50	48h	Crustacea	0.063- 0.073mg/L	4
	NOEC(ECx)	24h	Fish	0.022mg/l	4
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	96h	Algae or other aquatic plants	0.032mg/L	2
	EC50	72h	Algae or other aquatic plants	15.57mg/L	2
sodium selenate,	NOEC(ECx)	4320h	Fish	<0.005mg/l	2
anhydrous –	EC50	48h	Crustacea	0.52- 0.63mg/l	4
	LC50	96h	Fish	0.55- 0.85mg/L	4
Legend:	4. US EPA, Ec	· ·	ECHA Registered Substances - Ecotoxicologic ata 5. ECETOC Aquatic Hazard Assessment Da	'	

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
levamisole hydrochloride	HIGH	HIGH
albendazole	HIGH	HIGH
sodium selenate, anhydrous	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
levamisole hydrochloride	LOW (LogKOW = 1.84)
albendazole	LOW (LogKOW = 3.1358)
sodium selenate, anhydrous	LOW (BCF = 3.162)

Mobility in soil

Ingredient	Mobility
levamisole hydrochloride	LOW (Log KOC = 8652)
albendazole	LOW (Log KOC = 1871)
sodium selenate, anhydrous	LOW (Log KOC = 48.64)

SECTION 13 Disposal considerations

Waste treatment methods

	Containers may still present a chemical hazard/ danger when empty.
	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.
	DO NOT allow wash water from cleaning or process equipment to enter drains.
Product / Packaging	It may be necessary to collect all wash water for treatment before disposal.
disposal	In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
	Where in doubt contact the responsible authority.
	Recycle wherever possible.
	• Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable
	treatment or disposal facility can be identified.
	• Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a
	licensed apparatus (after admixture with suitable combustible material).
	Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

Page **11** of **13**

SECTION 14 Transport information

Labels Required Marine Pollutant HAZCHEM Not Applicable

Proper Shipping Name: Environmentally Hazardous Substance, liquid, N.O.S. (Cyromazine)

UN Number: 3082 DG Class: 9 Subsidiary Risk Class: None Packing Group: III

HAZCHEM Code: N/A

SECTION 15 Regulatory information

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

levamisole hydrochloride 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

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

Australian Inventory of Industrial Chemicals (AIIC)

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

albendazole 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

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

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

sodium selenate, anhydrous is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

Additional Regulatory Information

Not Applicable

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	No (albendazole)
Canada - NDSL	No (levamisole hydrochloride; albendazole; sodium selenate, anhydrous)

National Inventory	Status
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (albendazole)
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	No (albendazole)
USA - TSCA	TSCA Inventory 'Active' substance(s) (sodium selenate, anhydrous); No (levamisole hydrochloride; albendazole)
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	No (levamisole hydrochloride; albendazole; sodium selenate, anhydrous)
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	11/12/2024
Initial Date	11/12/2024

SDS Version Summary

Version	Date of Update	Sections Updated
2.1	11/12/2024	Physical and chemical properties - Appearance

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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