

Topigen Antibacterial, Antifungal, Anti-Inflammatory, Antipruritic, Oily Suspension for Dogs and Cats

Troy Laboratories Pty Ltd

Chemwatch: 5401-31 Version No: 5.1 Chemwatch Hazard Alert Code: 2

Issue Date: 10/03/2023
Print Date: 31/03/2025
L.GHS.AUS.EN.E

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	Topigen Antibacterial, Antifungal, Anti-Inflammatory, Antipruritic, Oily Suspension for Dogs and Cats	
Chemical Name	pplicable	
Synonyms	number: 38586	
Chemical formula	tApplicable	
Other means of identification	Not Available	

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

Relevant identified uses	Antibacterial, antifungal, anti-Inflammatory, antipruritic preparation for use on dogs and cats. To be used as directed on product
Relevant lacininea ases	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	02 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 Not Available		

SECTION 2 Hazards identification

Classification of the substance or mixture

Poisons Schedule	S4	
Classification ^[1]	Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2A	
Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) N Annex VI		

Label elements

Hazard pictogram(s)



Page 2 of 15

Topigen Antibacterial, Antifungal, Anti-Inflammatory, Antipruritic, Oily Suspension for Dogs and Cats	Ρ

Signal word Warning

Hazard statement(s)

H317	May cause an allergic skin reaction.	
H319 Causes serious eye irritation.		

Precautionary statement(s) Prevention

P280	P280 Wear protective gloves, protective clothing, eye protection and face protection.	
P261 Avoid breathing mist/vapours/spray.		
P264	P264 Wash all exposed external body areas thoroughly after handling.	
P272 Contaminated work clothing should not be allowed out of the workplace.		

Precautionary statement(s) Response

P302+P352	IF ON SKIN: Wash with plenty of water.	
P305+P351+P338	F IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	

Precautionary statement(s) Storage

Not Applicable

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
8012-95-1.	>60	paraffin oils
1400-61-9	1-10	nystatin
1405-41-0	<1	gentamicin sulfate
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 1272/20 Annex VI; 4. Classification drawn from C&L * EU IOELVs available		

SECTION 4 First aid measures

	If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water.
Fire Contract	Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally life and a way from eye and have a final based on the eyelide of the eyelide o
Eye Contact	 lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
	 Transport to hospital or doctor without delay.
	 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.
	For thermal burns:
	Decontaminate area around burn.
	 Consider the use of cold packs and topical antibiotics.
	For first-degree burns (affecting top layer of skin)
	Hold burned skin under cool (not cold) running water or immerse in cool water until pain subsides.
	Use compresses if running water is not available.
	 Cover with sterile non-adhesive bandage or clean cloth.
	Do NOT apply butter or ointments; this may cause infection.
	Continue

Version No: 5.1	Topige	n Antibacterial, Antifungal, Anti-Inflammatory, Antipruritic, Oily Suspension for Dogs and Cats	31/03/202
		 Give over-the counter pain relievers if pain increases or swelling, redness, fever occur. For second-degree burns (affecting top two layers of skin) Cool the burn by immerse in cold running water for 10-15 minutes. Use compresses if running water is not available. Do NOT apply ice as this may lower body temperature and cause further damage. Do NOT break blisters or apply butter or ointments; this may cause infection. Protect burn by cover loosely with sterile, nonstick bandage and secure in place with gauze or tape. To prevent shock: (unless the person has a head, neck, or leg injury, or it would cause discomfort): Lay the person flat. Elevate feet about 12 inches. Elevate feet about 12 inches. Seek medical assistance. For third-degree burns Seek medical assistance. For third-degree burns Seek immediate medical or emergency assistance. In the mean time: Protect burn area acover loosely with sterile, nonstick bandage or, for large areas, a sheet or other material that will not lint in wound. Separate burned toes and fingers with dry, sterile dressings. Do not soak burn in water or apply ointments or butter; this may cause infection. To prevent shock see above. For an airway burn, do not place pillow under the person's head when the person is lying down. This can close the air Have a person with a facial burn sit up. Check pulse and breathing to monitor for shock until emergency help arrives. 	
	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 first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or poc mask as trained. Perform CPR if necessary. Transport to hospital, or doctor. 	
	Ingestion	 For advice, contact a Poisons Information Centre or a doctor at once. Urgent hospital treatment is likely to be needed. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway a prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Transport to hospital or doctor without delay. 	and

Indication of any immediate medical attention and special treatment needed

- Heavy and persistent skin contamination over many years may lead to dysplastic changes. Pre-existing skin disorders may be aggravated by exposure to this product.
- In general, emesis induction is unnecessary with high viscosity, low volatility products, i.e. most oils and greases.
- High pressure accidental injection through the skin should be assessed for possible incision, irrigation and/or debridement.

NOTE: Injuries may not seem serious at first, but within a few hours tissue may become swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Product may be forced through considerable distances along tissue planes.

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 ignition result	may
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Advice for firefighters

 Alert Fire Brigade and tell them location and nature of hazard. 	
 Fire Fighting Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. 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. 	

Version No: 5.1	Topiger	n Antibacterial, Antifungal, Anti-Inflammatory, Antipruritic, Oily Suspension for Dogs and Cats
Fire/Explosic	on Hazard	 Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). May emit acrid smoke. Mists containing combustible materials may be explosive. Combustion products include: carbon dioxide (CO2) other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes. CARE: Water in contact with hot liquid may cause foaming and a steam explosion with wide scattering of hot oil and possible severe burns. Foaming may cause overflow of containers and may result in possible fire.
H	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	 Slippery when spilt. Remove all ignition sources. 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	 Slippery when spilt. 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. No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. 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 handi	ing
Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke.
Sale handling	 When handling, Do NoT eat, think of shicke. 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. 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.
Other information	 Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources.

Version No: 5.1	Topigen Antibacterial, Antifungal, Anti-Inflammatory, Antipruritic, Oily Suspension for Dogs and Cats	Print Date: 31/03/2025
	 Store in a cool, dry, well-ventilated area. 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	r safe storage, including any incompatibilities	

Suitable container	 Glass container is suitable for laboratory quantities Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	 CARE: Water in contact with heated material may cause foaming or a steam explosion with possible severe burns from wide scattering of hot material. Resultant overflow of containers may result in fire. Oil leaks in a pressurized circuit may result in a fine flammable spray (the lower flammability limit for oil mist is reached for a concentration of about 45 g/m3 Autoignition temperatures may be significantly lower under particular conditions (slow oxidation on finely divided materials 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	paraffin oils	Oil mist, refined mineral	5 mg/m3	Not Available	Not Available	Not Available
Ingredient	Original IDLH			Revised IDLH		
paraffin oils	2,500 mg/m3			Not Available		
nystatin	Not Available			Not Available		
gentamicin sulfate	Not Available			Not Available		

MATERIAL DATA

Exposure controls

propriate engineering			
controls	Enclosed local exhaust ventilation is required at points of du HEPA terminated local exhaust ventilation should be conside Barrier protection or laminar flow cabinets should be conside A fume hood or vented balance enclosure is recommended f When handling quantities up to 500 gram in either a standar per hour) is preferred. Quantities up to 1 kilogram may requi cabinet, or approved vented enclosures. Quantities exceedir containment laboratory using appropriate barrier/ containme Manufacturing and pilot plant operations require barrier/ cont Barrier/ containment technology and direct coupling (totally e the room) typically use double or split butterfly valves and hy powder containment booths). Glove bags, isolator glove box handling areas is required. Fume-hoods and other open-face containment devices are a are achieved. Partitions, barriers, and other partial containm uncontrolled areas. For non-routine emergencies maximum generated in the workplace possess varying "escape" veloci	ered at point of generation of dust, fumes or v ared for laboratory scale handling. For weighing/ transferring quantities exceeding d laboratory with general dilution ventilation (re a designated laboratory using fume hood, ng 1 kilogram should be handled in a designant technology. tainment and direct coupling technologies. enclosed processes that create a barrier betwe brid unidirectional airflow/ local exhaust vent systems are optional. HEPA filtration of exha technologies are required to prevent migr local and general exhaust are necessary. Air	g 500 mg. e.g. 6-12 air changes biological safety ated laboratory or veen the equipment and ilation solutions (e.g. aust from dry product m/s (200 feet/minute) ration of the material to contaminants
		•	locities" of fresh
	circulating air required to effectively remove the contaminant Type of Contaminant:	•	Air Speed:
	circulating air required to effectively remove the contaminant	•	
	circulating air required to effectively remove the contaminant Type of Contaminant:		Air Speed: 0.25-0.5 m/s (50-
	circulating air required to effectively remove the contaminant Type of Contaminant: solvent, vapours, etc. evaporating from tank (in still air) aerosols, fumes from pouring operations, intermittent conta	ainer filling, low speed conveyer transfers	Air Speed: 0.25-0.5 m/s (50- 100 f/min.) 0.5-1 m/s (100-200
	circulating air required to effectively remove the contaminant Type of Contaminant: solvent, vapours, etc. evaporating from tank (in still air) aerosols, fumes from pouring operations, intermittent conta (released at low velocity into zone of active generation) direct spray, drum filling, conveyer loading, crusher dusts,	ainer filling, low speed conveyer transfers	Air Speed: 0.25-0.5 m/s (50- 100 f/min.) 0.5-1 m/s (100-200 f/min.) 1-2.5 m/s (200-500
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Topigen Antibacterial, Antifungal, Anti-Inflammatory, Antipruritic, Oily Suspension for Dogs and Cats

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 When handling very small quantities of the material eye protection may not be required. For laboratory, larger scale or bulk handling or where regular exposure in an occupational setting occurs: Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent] Face shield. Full face shield may be required for supplementary but never for primary protection of eyes. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy Eye and face protection 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 Rubber gloves (nitrile or low-protein, powder-free latex, latex/ nitrile). Employees allergic to latex gloves should use nitrile gloves in preference. Double gloving should be considered. PVC gloves. Hands/feet protection Change gloves frequently and when contaminated, punctured or torn. Wash hands immediately after removing gloves. Protective shoe covers. [AS/NZS 2210] Head covering. See Other protection below Body protection • For quantities up to 500 grams a laboratory coat may be suitable. • 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. For quantities over 1 kilogram and manufacturing operations, wear disposable coverall of low permeability and disposable shoe covers. Other protection • For manufacturing operations, air-supplied full body suits may be required for the provision of advanced respiratory protection Eve wash unit. Ensure there is ready access to an emergency shower. For Emergencies: Vinyl suit

Respiratory protection

Type A-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.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

^ - 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.

Topigen Antibacterial, Antifungal, Anti-Inflammatory, Antipruritic, Oily Suspension for Dogs and Cats

- 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	Yellow to brown liquid.		
Physical state	Liquid	Relative density (Water = 1)	0.85
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 Available
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 Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Not Available	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

•	
a) Acute Toxicity	Based on available data, the classification criteria are not met.
b) Skin Irritation/Corrosion	Based on available data, the classification criteria are not met.
c) Serious Eye Damage/Irritation	There is sufficient evidence to classify this material as eye damaging or irritating
d) Respiratory or Skin sensitisation	There is sufficient evidence to classify this material as sensitising to skin or the respiratory system
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.		
n) STOT - Single Exposure	Based on available data, the classification criteria are not met.		
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	The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless inhalation of vapours, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress.		
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.		
Skin Contact	The liquid may be miscible with fats or oils and may degrease the contact dermatitis. The material is unlikely to produce an irritant d		
Eye	Although the material is not thought to be an irritant (as classified transient discomfort characterised by tearing or conjunctival redu		
Chronic	Practical experience shows that skin contact with the material is a substantial number of individuals, and/or of producing a positive of Substances that can cause occupational asthma (also known as specific airway hyper-responsiveness via an immunological, irritar responsive, further exposure to the substance, sometimes even the symptoms can range in severity from a runny nose to asthma. Now hyper-responsive and it is impossible to identify in advance who a Substances than can cuase occupational asthma should be disting 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 reconsidered. Health surveillance is appropriate for all employees are cause occupational asthma and there should be appropriate considered. Health surveillance. 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. Limited evidence suggests that repeated or long-term occupation organs or biochemical systems. Limited evidence shows that inhalation of the material is capable individuals at a greater frequency than would be expected from the Pulmonary sensitisation, resulting in hyperactive airway dysfunction and eactivated by a variety of nonspecific environmental stimuli Principal route of exposure is by skin contact; lesser exposures in Prolonged contact with mineral oils carries with it he risk of skin a pigmentation of the face (melanosis) and warts on the sole of the appreciable systemic effects appear to result through skin absorp Exposure to oil mists frequently elicits respiratory conditions, such or appreciable systemic effects appear to result through skin absorp expression of the material oil and kern individuals at lung fibrosis.	esponse in experimental animals. asthmagens and respiratory sensitisers) can induce a state of int or other mechanism. Once the airways have become hyper- o tiny quantities, may cause respiratory symptoms. These at all workers who are exposed to a sensitiser will become are likely to become hyper-responsive. Iguished 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. Where is of control to prevent workers from becoming hyper- neive 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 expressed by at least one classification body that the material available information, however, there presently exists al exposure may produce cumulative health effects involving of inducing a sensitisation reaction in a significant number of he response of a normal population. on and pulmonary allergy may be accompanied by fatigue, st for extended periods, even after exposure ceases. Symptom such as automobile exhaust, perfumes and passive smoking. Include inhalation of fumes from hot oils, oil mists or droplets. conditions such as oil folliculitis, eczematous dermatitis, foot (plantar warts). With highly refined mineral oils no tion. In as asthma; the provoking agent is probably an additive. High linical evidence is equivocal. In animals exposed to ths, the activity of lung and serum alkaline phosphatase se. These enzyme changes are sensitive early indicators of	
Topigen Antibacterial,			
Topigen Antibacterial, Antifungal, Anti- nflammatory, Antipruritic,	ΤΟΧΙΟΙΤΥ	IRRITATION	

Inflammatory, Antipruritic, Oily Suspension for Dogs and Cats

paraffin oils

Not Available	Not Available
τοχιςιτγ	IRRITATION
Inhalation (Rat) LC50: 2062 ppm4h ^[2]	Eye (Rodent - rabbit): 100mg/1H - Mild
Oral (Mouse) LD50; 22000 mg/kg ^[2]	Eye (Rodent - rabbit): 500mg - Moderate
	Skin (Rodent - guinea pig): 100mg/24H - Mild

Chemwatch: 5401-31

Page 9 of 15

Topigen Antibacterial, Antifungal, Anti-Inflammatory, Antipruritic, Oily Suspension for Dogs and Cats				
	Skin (Rodent - rabbit): 100mg/24H - Mild			

	ΤΟΧΙΟΙΤΥ	IRRITATION
nystatin	Oral (Rat) LD50: 10000 mg/kg ^[2]	Skin (Human - woman): 30%
	ΤΟΧΙΟΙΤΥ	IRRITATION
gentamicin sulfate	Oral (Rat) LD50: >5000 mg/kg ^[2]	Not Available
Legend:	1. Value obtained from Europe ECHA Registered Substance Unless otherwise specified data extracted from RTECS - R	es - Acute toxicity 2. Value obtained from manufacturer's SDS. egister of Toxic Effect of chemical Substances
	Equivocal tumoridon by RTECS criteria	
PARAFFIN OILS	due to repeated or prolonged skin exposure. Inhalation of parshortness of breath, and occasionally, lead to hydrocarbon p can cause skin irritation, which can lead to contact dermatiti diseases. Ingestion of paraffin oil can cause upset of the inth Paraffin oil, which has not been highly refined, is often consi- precaution is required, while using paraffin oil is highly inflam and also out of direct sunlight. The materials included in the Lubricating Base Oils category. The potential toxicity of a specific distillate base oil is inverse undergone, since: The adverse effects of these materials are associated with The levels of the undesirable components are inversely ref Distillate base oils receiving the same degree or extent of The potential toxicity of <i>residual base oils</i> is independent of The potential toxicity of <i>residual base oils</i> is independent of The reproductive and developmental toxicity of the distillat The degree of refining influences the carcinogenic potential inadequate to substantially reduce the carcinogenic potential indequate to substantially reduce the carcinogenic potential components. In comparison to unrefined and mildly refined is smaller range of hydrocarbon molecules and have demonst testing of residual oils has been negative, supporting the be components are largely non-bioavailable due to their molecu- toxicity testing has consistently shown that lubricating base lubricating base oils amutagenic and carcinogenic potential content, and the level of DMSO extractables (e.g. IP346 ass degree/conditions of processing Skin irritation is not significant (CONCAWE) based on 14 ter Each study lasted for 24 hours, a period of time 6 times long Eye irritation is not significant according to experimental dat OLBO class(Other Lubricant Base Oils)). Reproduction toxicity: Reproduction / development toxicity n gave negative results in oral gavage studies. Pre-birth studi showed a maternal LOAEL (Lowest Observed Adverse Effect NOAEL (No Observable Adverse Effect Level) of 2000 mg/k is not toxic for	eneumonitis. On the other hand, prolonged skin exposure to this oil s, especially in individuals who already have skin disorders or settinal tract. dered as a carcinogen or cancer causing agent. Therefore, adequate paraffin oil should be stored in a cool and well-ventilated place n a mable, be sure to keep it away from any source of heat or ignition r are related from both process and physical-chemical perspectives; aly related to the severity or extent of processing the oil has undesirable components, and ated to the degree of processing; processing will have similar toxicities; f the degree of processing the oil receives. a base oils is inversely related to the degree of processes are of the oils. Whereas mild acid / earth refining processes are of the oils. Whereas mild acid / earth refining processes are of the oils of undesirable components, have the largest variation nitial carcinogenic and mutagenic activities. Highly and severely mildly refined oils by removing or transforming undesirable base oils, the highly and severely refined distillate base oils have a rated very low mammalian toxicity. Mutagenicity and carcinogenicity ief that these materials lack biologically active components or the lar size. oils have low acute toxicities. Numerous tests have shown that a correlates with its 3-7 ring polycyclic aromatic compound (PAC) any), both characteristics that are directly related to the ests on 10 CASs from the OLBO class (Other Lubricant Base Oils). yer than the duration recommended by the OECD method). a (CONCAWE studies) based on 9 "in vivo" tests on 7 CASs from the on of the respiratory tract or of the skin. (CONCAWE studies based in Base Oils)) vo" studies regarding gene mutation at mice micronuclei indicated tive results in 7 studies performed on 4 CASs from the OLBO onnotring according to OECD 421 or 422 methods. CONCAWE tests as regarding toxicity in the unborn foetus development process at Level) of 125 mg/kg body/day, based on germal irritation and a g body/day, which shows that the substance

Topigen Antibacterial, Antifungal, Anti-Inflammatory, Antipruritic, Oily Suspension for Dogs and Cats

bone marrow, kidneys, liver, lymph nodes, skin, stomach, and thymus. Based on the results of this study, the NOAEL for the test material is less than 30 mg/kg/day.

Toxicity to reproduction:

Mineral oil (a white mineral oil) caused no reproductive or developmental toxicity with 1 mL/kg/day (i.e., 1000 mg/kg/day) in an OECD 421 guideline study, but did cause mild to moderate skin irritation. Therefore, the reproductive/developmental NOAEL for this study is =1000 mg/kg/day and no LOAEL was determined.

Developmental toxicity, teratogenicity:

Heavy paraffinic distillate furfural extract produced maternal, reproductive and foetal toxicity. Maternal toxicity was exhibited as vaginal discharge (dose-related), body weight decrease, reduction in thymus weight and increase in liver weight (125 mg/kg/day and higher) and aberrant haematology and serum chemistry (125 and/or 500 mg/kg/day). Evidence of potential reproductive effects was shown by an increased number of dams with resorptions and intrauterine death. Distillate aromatic extract (DAE) was developmentally toxic regardless of exposure duration as indicated by increased resorptions and decreased foetal body weights. Furthermore, when exposures were increased to 1000 mg/kg/day and given only during gestation days 10 through 12, cleft palate and ossification delays were observed. Cleft palate was considered to indicate a potential teratogenic effect of DAE. The following Oil Industry Note (OIN) has been applied: OIN 8 - The classifications as a reproductive toxicant category 2; H361d (Suspected of damaging the unborn child) and specific target organ toxicant category 1; H372 (Causes damage to organs through prolonged or repeated exposure) need not apply if the substance is not classified as carcinogenic

Toxicokinetics of lubricant base oils has been examined in rodents. Absorption of other lubricant base oils across the small intestine is related to carbon chain length; hydrocarbons with smaller chain length are more readily absorbed than hydrocarbons with a longer chain length. The majority of an oral dose of mineral hydrocarbon is not absorbed and is excreted unchanged in the faeces. Distribution of mineral hydrocarbons following absorption has been observed in liver, fat, kidney, brain and spleen. Excretion of absorbed mineral hydrocarbons occurs via the faeces and urine. Based on the pharmacokinetic parameters and disposition profiles, the data indicate inherent strain differences in the total systemic exposure (~4 fold greater systemic dose in F344 vs SD rats), rate of metabolism, and hepatic and lymph node retention of C26H52, which may be associated with the different strain sensitivities to the formation of liver granulomas and MLN histiocytosis. Highly and Severely Refined Distillate Base Oils

Acute toxicity: Multiple studies of the acute toxicity of highly & severely refined base oils have been reported. Irrespective of the crude source or the method or extent of processing, the oral LD50s have been observed to be >5 g/kg (bw) and the dermal LD50s have ranged from >2 to >5g/kg (bw). The LC50 for inhalation toxicity ranged from 2.18 mg/l to> 4 mg/l. When tested for skin and eye irritation, the materials have been reported as "non-irritating" to "moderately irritating" Testing in guinea pigs for sensitization has been negative

Repeat dose toxicity: . Several studies have been conducted with these oils. The weight of evidence from all available data on highly & severely refined base oils support the presumption that a distillate base oil s toxicity is inversely related to the degree of processing it receives. Adverse effects have been reported with even the most severely refined white oils - these appear to depend on animal species and/ or the peculiarities of the study.

- The granulomatous lesions induced by the oral administration of white oils are essentially foreign body responses. The lesions occur only in rats, of which the Fischer 344 strain is particularly sensitive,
- The testicular effects seen in rabbits after dermal administration of a highly to severely refined base oil were unique to a single study and may have been related to stress induced by skin irritation, and
- The accumulation of foamy macrophages in the alveolar spaces of rats exposed repeatedly via inhalation to high levels of highly to severely refined base oils is not unique to these oils, but would be seen after exposure to many water insoluble materials.

Reproductive and developmental toxicity: A highly refined base oil was used as the vehicle control in a one-generation reproduction study. The study was conducted according to the OECD Test Guideline 421. There was no effect on fertility and mating indices in either males or females. At necropsy, there were no consistent findings and organ weights and histopathology were considered normal by the study s authors.

A single generation study in which a white mineral oil (a food/ drug grade severely refined base oil) was used as a vehicle control is reported. Two separate groups of pregnant rats were administered 5 ml/kg (bw)/day of the base oil via gavage, on days 6 through 19 of gestation. In one of the two base oil dose groups, three malformed foetuses were found among three litters The study authors considered these malformations to be minor and within the normal ranges for the strain of rat. **Genotoxicity**:

In vitro (mutagenicity): Several studies have reported the results of testing different base oils for mutagenicity using a modified Ames assay Base oils with no or low concentrations of 3-7 ring PACs had low mutagenicity indices.

In vivo (chromosomal aberrations): A total of seven base stocks were tested in male and female Sprague-Dawley rats using a bone marrow cytogenetics assay. The test materials were administered via gavage at dose levels ranging from 500 to 5000 mg/kg (bw). Dosing occurred for either a single day or for five consecutive days. None of the base oils produced a significant increase in aberrant cells.

Carcinogenicity: Highly & severely refined base oils are not carcinogens, when given either orally or dermally.

GENTAMICIN SULFATE

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a nonallergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.

Allergic reactions which develop in the respiratory passages as bronchial asthma or rhinoconjunctivitis, are mostly the result of reactions of the allergen with specific antibodies of the IgE class and belong in their reaction rates to the manifestation of the immediate type. In addition to the allergen-specific potential for causing respiratory sensitisation, the amount of the allergen, the exposure period and the genetically determined disposition of the exposed person are likely to be decisive. Factors which increase the sensitivity of the mucosa may play a role in predisposing a person to allergy. They may be genetically determined or acquired, for example, during infections or exposure to irritant substances. Immunologically the low molecular weight substances become complete allergens in the organism either by binding to peptides or proteins (haptens) or after metabolism (prohaptens). Particular attention is drawn to so-called atopic diathesis which is characterised by an increased susceptibility to allergic rhinitis, allergic bronchial asthma and atopic eczema (neurodermatitis) which is associated with increased IqE synthesis.

Topige	Cats		Ision for Dogs and
	Exogenous allergic alveolitis is induced essentiall reactions (T lymphocytes) may be involved. Such Most neuromuscular blocking agents facilitate his transient hypotension, hypertension, tachycardia, A potential ototoxin A substantial number of medications and common the effects of noise. These chemicals are said to I Ototoxicity specifically involves the cochlea or aud of a drug. The effects of ototoxicity can be reversi Symptoms of ototoxicity include partial or profoun Ototoxicity in the cochlea may cause hearing loss between. It may present with bilaterally symmetric other or not at all. The time frames for progress of permanent. Currently it is thought that more than 750 different studied in any depth. No specific treatment may be available, but withd oxidants may limit the ototoxic effects. There is no cochlear nerve terminal regeneration has been of this in humans. It is difficult to distinguish between nerve damage ototoxicity typically results from ruling out all other symptoms. Treatment options vary depending on symptoms that do not require drastic treatment will for regaining balance and walking abilities. Aminoglycosides have bactericidal activity in which believed to bind to the A-site (aminoacyl) on the 1 genetic code gets mis read, and the translation is Acquired resistance of aminoglycosides may arise bacteria, which results from amino acid or rRNA s that produce 16S rRNA methyltransferases. he main noted adverse effects of aminoglycoside: Aminoglycoside-induced ototoxicity has been rep- cochlear neurons. Often the vestibular loss is salv nephrotoxicity due to aminoglycosides may appear renal tubular toxicity decreased blood flow to the I Renal effects with aminoglycosides that can cause patient at risk for renal problems. It is important to Aminoglycoside-induced nephrotoxicity, includir concurrently with aminoglycosides that can cause prolonging neuromuscular blockade, most notably Aminoglycosides have also demonstrated correla ototoxicity and nephrotoxicity, patients with disease prolonging	a allergy is of the delayed type with tarmine release in susceptible pati- bradycardia, bronchospasm and in industrial chemicals can also ca- be ototoxic (oto = ear, toxic = pois ditory nerve and sometimes the vi- ible and temporary, or irreversible to hearing loss, vertigo, and tinniti s of the high-frequency pitch range cal symptoms, or asymmetrically, f the disease vary greatly and sym- t groups of chemicals are potential rawal of the ototoxic substance m to cure or restoration capability if the oserved in chickens,] which sugges and structural damage due to sim- r possible sources of hearing loss the patient and the diagnosis. So hile others can be treated with me chick they bind to the bacteria riboso (6S rRNA, a component of the rib- disrupted, leading to the bacteria e through over expression of efflu- sequence mutations aminoglycosi s are ototoxicity, nephrotoxicity, and orted to occur in 2 to 45% of adul- nicin, streptomycin, and tobramyco- chlear damage Studies have foun- in turn, causes damage to the ver- vage able while hearing loss is irre- ar in up to 10 to 25% of patients. kidneys, and reduced GFR most of reversible. Furthermore, there are ing dehydration, pregnancy, and h e nephrotoxicity, such as NSAIDs, o monitor patient renal function w tions with neuromuscular blockards ses affecting the neuromuscular ju- y calcium channel blockers, shoul	n onset up to four hours following exposure. ents. Adverse reactions include skin flushing, anaphylactoid reactions. use hearing loss themselves or exacerbate ionous). estibular system, for example, as a side effect and permanent. us. es or complete deafness, or losses at points with one ear developing the condition after the nptoms of hearing loss may be temporary or ally ototoxic, but only a few of these have been ay be warranted.Co-administration of anti- ne damage becomes permanent, although ests that there may be a way to accomplish milarity of the symptoms. Diagnosis of and is often the catchall explanation for the me patients experience only temporary edication. Physical therapy may prove useful mal 30S subunit. Specifically, they are being unable to carry out protein synthesis x pumps and ribosomal modification by des, are ineffective against bacterial isolates and neuromuscular blockade. Is. The ototoxicity can be vestibular and/or in more commonly cause vestibular damage, d that aminoglycosides seem to create stibular and cochlear sensory cells along with eversible In patients receiving aminoglycoside therapy, commonly causes the nephrotoxicity seen. a risk factors associated with the development epatic dysfunction. Taking other medications cyclosporine, and diuretics, also puts a hen taking aminoglycosides. Is. Although this is less common than unction and patients using medications d be cautious when using aminoglycoside.
NYSTATIN & GENTAMICIN SULFATE	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested.		
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye	v	STOT - Single Exposure	×
Damage/Irritation Respiratory or Skin	✓	STOT - Repeated Exposure	×
sensitisation			
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

Topigen Antibacterial, Antifungal, Anti-Inflammatory, Antipruritic,

Endpoint Test Duration (hr)

Species

Topigen Antibacterial, Antifungal, Anti-Inflammatory, Antipruritic, Oily Suspension for Dogs and Cats

Oily Suspension for Dogs and Cats	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
paraffin oils	EC50	48h	Crustacea	0.016- 0.027mg/L	4
	EC50(ECx)	48h	Crustacea	0.016- 0.027mg/L	4
	LC50	96h	Fish	>100mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
gentamicin sulfate E	EC50	48h	Crustacea	16.1- 28.4mg/L	4
	EC50(ECx)	48h	Crustacea	16.1- 28.4mg/L	4
	LC50	96h	Fish	>955mg/L	4
Legend:	4. US EPA, Ec		ECHA Registered Substances - Ecotox a 5. ECETOC Aquatic Hazard Assessi	• .	

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
paraffin oils	HIGH (LogKOW = 6.1)
nystatin	LOW (LogKOW = 7.08)

Mobility in soil

Ingredient	Mobility	
	No Data available for all ingredients	

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.		
It may be necessary to collect all wash water for treatment before 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 or consult manufacturer for recycling options.		
 Consult State Land Waste Authority for disposal. 		
Bury or incinerate residue at an approved site.		
Recycle containers if possible, or dispose of in an authorised landfill.		

SECTION 14 Transport information

Labels Required

Page 13 of 15

Continued...

Topigen Antibacterial, Antifungal, Anti-Inflammatory, Antipruritic, Oily Suspension for Dogs and Cats

Cats

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
paraffin oils	Not Available
nystatin	Not Available
gentamicin sulfate	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
paraffin oils	Not Available
nystatin	Not Available
gentamicin sulfate	Not Available

SECTION 15 Regulatory information

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

paraffin oils is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

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

nystatin 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 2

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 3

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

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

gentamicin sulfate 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 Chemical Footprint Project - Chemicals of High Concern List

Additional Regulatory Information

Not Applicable

National Inventory Status

National Inventory	Status			
Australia - AIIC / Australia Non-Industrial Use	Yes			
Canada - DSL	o (gentamicin sulfate)			
Canada - NDSL	No (paraffin oils; nystatin; gentamicin sulfate)			
China - IECSC	No (nystatin)			
Europe - EINEC / ELINCS / NLP	Yes			
Japan - ENCS	Yes			
Korea - KECI	No (nystatin)			
New Zealand - NZIoC	Yes			

Page 14 of 15

Topigen Antibacterial, Antifungal, Anti-Inflammatory, Antipruritic, Oily Suspension for Dogs and Cats

National Inventory	Status		
Philippines - PICCS	o (nystatin)		
USA - TSCA	SCA Inventory 'Active' substance(s) (paraffin oils); No (nystatin; gentamicin sulfate)		
Taiwan - TCSI	Yes		
Mexico - INSQ	Yes		
Vietnam - NCI	Yes		
Russia - FBEPH	No (nystatin; gentamicin sulfate)		
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	13/05/2020

SDS Version Summary

Version	Date of Update	Sections Updated
4.1	20/08/2021	Classification change due to full database hazard calculation/update.
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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