



Benztrop[™], Benztropine Mesylate, 2mg, Tablet

Phebra Pty Ltd

Chemwatch: 23-0967 Version No: 5.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 1

Issue Date: 27/06/2017 Print Date: 07/03/2018 S.GHS.AUS.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	Benztrop™, Benztropine Mesylate, 2mg, Tablet			
Synonyms	Not Available			
Other means of identification	Not Available			
Relevant identified uses of the substance or mixture and uses advised against				

Relevant identified uses Benztrop is approved for the treatment of all forms of parkinsonism and the treatment of extra pyramidal reactions (except tardive dyskinesia) due to neuroleptic drugs.

Details of the supplier of the safety data sheet

Registered company name	Phebra			
Address	9 Orion Road Lane Cove West NSW 2066 Australia			
Telephone	+61 2 9420 9199 1800 720 020			
Fax	+61 2 9420 9177			
Website	www.phebra.com			
Email	info@phebra.com			

Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	+61 401 264 004
Other emergency telephone numbers	N/A

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Poisons Schedule	S4				
Classification ^[1]	Acute Aquatic Hazard Category 3, Chronic Aquatic Hazard Category 3				
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI				
Label elements					
Hazard pictogram(s)	Not Applicable				
SIGNAL WORD	NOT APPLICABLE				
Hazard statement(s)					
H412	Harmful to aquatic life with long lasting effects.				
Precautionary statement(s) Pr	revention				
P273	Avoid release to the environment.				
Precautionary statement(s) Ro Not Applicable	esponse				
Precautionary statement(s) St	orage				
Not Applicable					
Precautionary statement(s) Disposal					
P501	Dispose of contents/container in accordance with local regulations.				
SECTION 3 COMPOSITION	/ INFORMATION ON INGREDIENTS				

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
63-42-3	>60	alpha-lactose
9004-34-6	<10	cellulose
9005-25-8	<10	starch
132-17-2	1.4	Benztropine Mesylate
557-04-0	<1	magnesium stearate

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. 					
Skin Contact	► Generally not applicable.					
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 pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor. 					
Ingestion	 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 and 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. Seek medical advice. 					

Indication of any immediate medical attention and special treatment needed

- Treatment regime for atropine intoxication (and for other anticholinergics):
 - Empty the stomach by aspiration and lavage.
 - The use of charcoal to prevent absorption, followed by lavage has been suggested.
 - Give a purgative such as 30 gm sodium sulfate in 250 ml H2O.
 - Excitement may be controlled by diazepam or other short acting barbiturates.
 - Supportive therapy may require oxygen and assisted respiration, ice-bags or alcohol sponges for hyperpyrexia, especially in children, bladder catheterisation and the administration of fluids.
 - MARTINDALE: The Extra Pharmacopoeia: 29th Edition.
 - Physostigmine salicylate (1-2 mg) subcutaneously or intravenously has been shown to reverse CNS symptoms of anticholinergic intoxication*.
 - * Merck, Sharp and Dohme SDS
- Physostigmine is the only reversible acetylcholinesterase inhibitor capable of directly antagonising the CNS manifestations of anticholinergic toxicity; it is an uncharged tertiary amine that efficiently crosses the blood brain barrier
- Most patients can be treated safely without physostigmine, but it is recommended for use when at least one of the following aberrations are present: tachydysrhythmias with subsequent haemodynamic compromise, intractable seizures, or severe agitation or psychosis (in which the patient is considered a threat to self or others).
- Although some recommend the use of benzodiazepines (such as diazepam) as first-line agents for the control of agitation associated with the anticholinergic syndrome, one study suggests that physostigmine is significantly more effective and no less safe for use in this setting. Physostigmine is contraindicated in patients with cardiac conduction disturbances (prolonged PR and QRS intervals) on ECG analysis.

NOTE: Following overdosage, a curare-like action may occur, i.e., neuromuscular blockade leading to muscular weakness and possible paralysis. In the event of a curare-like effect on respiratory muscles, artificial respiration should be instituted and maintained until effective respiratory action returns.

Medical Conditions Aggravated by Exposure: Hypersensitivity to material; glaucoma; liver or kidney disease; overactive thyroid; gastrointestinal tract obstructive disease; enlarged prostate gland, urinary obstruction, or urinary retention; intestinal atony; ulcerative colitis; myasthenia gravis; heart disease, including cardiac arrhythmias, congestive heart failure, coronary artery disease, and mitral stenosis; paralytic ileus; reflux oesophagitis (gastric reflux); hiatal hemia; pyloric obstruction; and tachycardia

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

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

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					
Advice for firefighters						
Fire Fighting	 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 courses. Use water delivered as a fine spray to control fire and cool adjacent area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. 					

Fire/Explosion Hazard	 If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use. Slight hazard when exposed to heat, flame and oxidisers. 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 monoxide (CO) ,
HAZCHEM	other pyrolysis products typical of burning organic material. 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	 Clean up all spills immediately. Secure load if safe to do so. Bundle/collect recoverable product. Collect remaining material in containers with covers for disposal.
Major Spills	 Clean up all spills immediately. Wear protective clothing, safety glasses, dust mask, gloves. Secure load if safe to do so. Bundle/collect recoverable product. Use dry clean up procedures and avoid generating dust. Vacuum up (consider explosion-proof machines designed to be grounded during storage and use). Water may be used to prevent dusting. Collect remaining material in containers with covers for disposal.

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling	9
Safe handling	 Limit all unnecessary personal contact. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with scap and water after handling.
Other information	Store away from incompatible materials.
Conditions for safe storage,	including any incompatibilities
Suitable container	Polyethylene or polypropylene container. Destring as programmended by many fact way

Suitable container	Packing as recommended by manufacturer.					
	Check all containers are clearly labelled and free from leaks.					
Storage incompatibility	Cellulose and its derivatives may react vigorously with calcium oxide, bleaching powder, perchlorates, perchloric acid, sodium chlorate, fluorine, nitric acid, sodium nitrate and sodium nitrite. May be incompatible with aminacrine hydrochloride, chlorocresol, mercuric chloride, phenol, resorcinol, tannic acid and silver nitrate. 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	cellulose	Cellulose (paper fibre)	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	starch	Starch	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	magnesium stearate	Stearates	10 mg/m3	Not Available	Not Available	Not Available

Ingredient	Material name TEEL-1			TEEL-2	TEEL-3	
starch	Thyodene; (Amylodextrin) 30 mg/m3			330 mg/m3	2,000 mg/m3	
Ingredient	Original IDLH		Revised	IDLH		
alpha-lactose	Not Available		Not Availa	Not Available		
cellulose	Not Available		Not Availa	Not Available		
starch	Not Available		Not Available			
Benztropine Mesylate	Not Available		Not Available			
magnesium stearate	Not Available		Not Availa	able		

Exposure controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. Local exhaust ventilation usually required.
No special equipment required due to the physical form of the product.
See Hand protection below
Wear general protective gloves, eg. light weight rubber gloves. No special equipment required due to the physical form of the product.
See Other protection below
 Overalls. P.V.C. apron. Barrier cream. Skin cleansing cream. Eye wash unit.
Not Available

Respiratory protection

Particulate. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, 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	-AUS P2	-	-PAPR-AUS / Class 1 P2
up to 50 x ES	-	-AUS / Class 1 P2	-
up to 100 x ES	-	-2 P2	-PAPR-2 P2 ^

^ - Full-face

A(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)

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

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

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

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

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

Try to avoid creating dust conditions.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Round flat faced white tablet (one side X scored and other side debossed 'PMS-2').		
Physical state	Manufactured	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available

pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Not Available	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Product is considered stable and 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. Cellulose, given via the windpipe, caused fibrosis in the alveoli and airways, with injuries of the lung cells. Some health effects associated with wood, cotton, flax, jute and hemp particles or fibres are not attributable to cellulose content but to other substances and/or impurities.			
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual. Large doses of cellulose may be administered orally as non-nutritive bulk, with doses of up to 30 g/day tolerated as bulk laxative while extremely large oral doses may produce disturbances to the gut. Starch is generally of low toxicity. An abnormal craving for starch (amylophagia) during pregnancy has been recognized in certain areas.			
Skin Contact	Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions 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. Not normally a hazard due to physical form of product.			
Eye	Although the material is not thought to be an irritant (as classified by EC Dire characterised by tearing or conjunctival redness (as with windburn).	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).		
Chronic	There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. There is some evidence that inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population. There is limited evidence that, skin contact with this product is more likely to cause a sensitisation reaction in some persons compared to the general population. There is limited evidence that, skin contact with this product is more likely to cause a sensitisation reaction in some persons compared to the general population. Some workers may develop chronic occupational dermatitis (generally mild) through the handling of starch products. When starch is used as a lubricant in surgical gloves, small amounts, released into the patient during the course of surgery, have resulted in granulomas and peritonitis. Inhalation studies using animals have shown that cellulose fibres can cause lung scarring, and humans exposed to cellulose at work are more likely to develop asthma and obstructive lung disease. The substance may also induce the production of free radicals in human white blood cells. Long-term use of antihistamines can cause sugar in the urine, obstructive jaundice, skin discolouration associated with loss of platelets, early periods, loss of milk production, breast development in males and decreased sex drive. Disturbances in the blood include anaemia, loss of white blood cells and platelets. Wide area external application of antihistamines can cause various side effects, including sensitisation and eczema.			
Benztrop™, Benztropine	TOXICITY	IRRITATION		
Mesylate, 2mg, Tablet	Not Available	Not Available		
	TOXICITY	IRRITATION		
alpha-lactose	Oral (rat) LD50: >10000 mg/kg ^[2]	Not Available		
	TOXICITY	IRRITATION		
	Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Not Available		
cellulose	Inhalation (rat) LC50: >5.8 mg/l/4H ^[2]			
	Oral (rat) LD50: >5000 mg/kg ^[2]			

	TOXICITY	IRRITATION
starch	Not Available	Skin (human): 0.3 mg/3d-l mild
	TOXICITY	IRRITATION
Benztropine Mesylate	Oral (rat) LD50: 940 mg/kg ^[2]	Not Available
	TOXICITY	IRRITATION
magnesium stearate	Not Available	Not Available
Legend:	1. Value obtained from Europe ECHA Registered Substa data extracted from RTECS - Register of Toxic Effect of	ances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified chemical Substances

ALPHA-LACTOSE	Equivocal tumorigenic agent by RTECS criteria.		
STARCH	The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.		
BENZTROPINE MESYLATE	Parasympatholytic effects, somnolence, toxic psychosis,	convulsions recorded.	
MAGNESIUM STEARATE	severe bronchial hyperreactivity on methacholine challer asthma) following an irritating inhalation is an infrequent	an occur after exposure to high levels of in a non-atopic individual, with sudden onsiteria for diagnosis of RADS include a rev nge testing, and the lack of minimal lymph disorder with rates related to the concen disorder that occurs as a result of exposu ases. The disorder is characterized by dif	highly irritating compound. Main criteria for diagnosing set of persistent asthma-like symptoms within minutes to rersible airflow pattern on lung function tests, moderate to ocytic inflammation, without eosinophilia. RADS (or tration of and duration of exposure to the irritating re due to high concentrations of irritating substance (often fliculty breathing, cough and mucus production.
Acute Toxicity	\odot	Carcinogenicity	\otimes
Skin Irritation/Corrosion	0	Reproductivity	0
Serious Eye Damage/Irritation	0	STOT - Single Exposure	0
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity	0		<u> </u>
widtagementy	0	Aspiration Hazard	\otimes

 \mathbf{X} – Data available but does not fill the criteria for classification Data available to make classification

🚫 – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Dente TM Dente in	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
Benztrop™, Benztropine Mesylate, 2mg, Tablet	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
alpha-lactose	Not Available	Not Available	Not Available	Not Available	Not Available
cellulose	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	Not Available	Not Available	Not Available	Not Available	Not Available
starch	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCI
	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
Benztropine Mesylate	Not Available	Not Available	Not Available	Not Available	Not Available
magnesium stearate	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCI
	Not Available	Not Available	Not Available	Not Available	Not Available

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

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Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

Cellulosic products, including cellulose ethers, generally have a low biodegradation rate and are generally of low toxicity to fish.

Sugar-based compounds (saccharides), including polysaccharides are generally easily decomposed by biodegradation. Not all polysaccharides decompose with equal rapidity, and

polysaccharides are also synthesised by microorganisms during, for example, the compost maturation phases. Water-insoluble species such as cellulose take longer to decompose and those with a significant degree of branching also take longer.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
alpha-lactose	LOW	LOW
cellulose	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation	
alpha-lactose	LOW (LogKOW = -5.1249)	
cellulose	LOW (LogKOW = -5.1249)	

Mobility in soil

Ingredient	Mobility
alpha-lactose	LOW (KOC = 10)
cellulose	LOW (KOC = 10)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal Bu	ecycle wherever possible or consult manufacturer for recycling options. onsult State Land Waste Authority for disposal. ury or incinerate residue at an approved site. ecycle containers if possible, or dispose of in an authorised landfill.
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SECTION 14 TRANSPORT INFORMATION

Labels Required				
Marine Pollutant	NO			
HAZCHEM	Not Applicable			
Land transport (ADG): NOT R	EGULATED FOR TRANSPORT OF DANGER	OUS 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				
Transport in bulk according t Not Applicable	to Annex II of MARPOL and the IBC code			
SECTION 15 REGULATORY INFORMATION				
Safety, health and environmental regulations / legislation specific for the substance or mixture				
ALPHA-LACTOSE(63-42-3) IS FOU	JND ON THE FOLLOWING REGULATORY LISTS			
Australia Inventory of Chemical Substances (AICS)				
CELLULOSE(9004-34-6) IS FOUN	D ON THE FOLLOWING REGULATORY LISTS			
Australia Exposure Standards		Australia Inventory of Chemical Substances (AICS)		
STARCH(9005-25-8) IS FOUND ON	I THE FOLLOWING REGULATORY LISTS			
Australia Exposure Standards		Australia Inventory of Chemical Substances (AICS)		
BENZTROPINE MESYLATE(132-1)	7-2) IS FOUND ON THE FOLLOWING REGULATORY	Y LISTS		
Australia Inventory of Chemical Subst	•			
MAGNESIUM STEARATE(557-04-0) IS FOUND ON THE FOLLOWING REGULATORY L	ISTS		
Australia Exposure Standards		Australia Inventory of Chemical Substances (AICS)		
National Inventory	Status			
Australia - AICS	Y			
Canada - DSL	Y			
Canada - NDSL	N (alpha-lactose; Benztropine Mesylate; magnesium s	stearate)		

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China - IECSC	N (Benztropine Mesylate)
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (Benztropine Mesylate; cellulose)
Korea - KECI	N (Benztropine Mesylate)
New Zealand - NZIoC	Υ
Philippines - PICCS	N (Benztropine Mesylate)
USA - TSCA	N (Benztropine Mesylate)
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Other information

Ingredients with multiple cas numbers

Name	CAS No
alpha-lactose	63-42-3, 5989-81-1, 14641-93-1, 64044-51-5, 10039-26-6
cellulose	9004-34-6, 68442-85-3
starch	9005-25-8, 65996-63-6, 68441-21-4, 9005-84-9

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 ${\sf Limit}_{\circ}$ IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL : No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value I OD. Limit Of Detection OTV: Odour Threshold Value **BCF: BioConcentration Factors** BEI: Biological Exposure Index This document is copyright.

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