

WC565 PART B **BARNES PRODUCTS PTY LTD**

Chemwatch: 8093-80

Chemwatch Hazard Alert Code: 3

Version No: 10.1

Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Issue Date: 16/03/2023 Print Date: 19/06/2023 S.GHS.NZL.EN.E

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

Product Identifier		
Product name	WC565 PART B	
Chemical Name	Not Applicable	
Synonyms	WC-565 PART B	
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	Polyurethane curative.
Nelevani luentineu uses	r olyureinane curative.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	BARNES PRODUCTS PTY LTD
Address	5 GREENHILLS AVE MOOREBANK NSW 2170 Australia
Telephone	Barnes Australia +612 9793 7555 Mon-Fri 8am-4:30pm
Fax	Barnes Australia +612 9793 7091
Website	www.barnesnz.co.nz
Email	sales@barnes.com.au

Emergency telephone number

Association / Organisation	New Zealand Poisons Information Centre
Emergency telephone numbers	Barnes NZ +649 9731 816 - Monday-Thursday 9am-5pm Friday 9am-4.30pm
Other emergency telephone numbers	New Zealand Poisons Information Centre 0800 764 766 After Hours

SECTION 2 Hazards identification

P280

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Wear protective gloves and protective clothing.

Avoid release to the environment.

Classification of the substance or mixture	
Classification ^[1]	Reproductive Toxicity Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 3
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI
Determined by Chemwatch using GHS/HSNO criteria	6.8A, 9.1C

Label elements

Hazard pictogram(s)	
Signal word	Danger
Hazard statement(s)	
H360	May damage fertility or the unborn child.
H412	Harmful to aquatic life with long lasting effects.
Precautionary statement(s) Pre	evention
P201	Obtain special instructions before use.

Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.
Precautionary statement(s) Sto	orage
P405	Store locked up.
Processitioners statement(s) Dispect	

Precautionary statement(s) Disposal

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

SECTION 3 Composition / information on ingredients

P501

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
Not Available	>60	polyether polyol mixture
872-50-4	0.625	N-methyl-2-pyrrolidone
62-38-4	0.157	phenylmercuric acetate
Legend:	 Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 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: Immediately hold eyelids apart and flush the eye continuously with 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. 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.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
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. If patient is unconscious, DO NOT attempt to give fluids by mouth.

Indication of any immediate medical attention and special treatment needed

For acute and short term repeated exposures to aryl and alkylmethoxy compounds of mercury: Absorption proceeds more rapidly than its inorganic counterpart but once inside the body biotransformation releases inorganic mercury. [Ellenhorn and Barceloux: Medical Toxicology]

- Moderate adsorption of inorganic mercury compounds through the gastro-intestinal tract (7-15%) is the principal cause of poisoning. These compounds are highly concentrated (as the mercuric (Hg (2+) form) in the kidney; acute ingestion may lead to oliguric renal failure. Severe mucosal necrosis may also result from ingestion.
- Chronic effects range from proteinuria to nephrotic syndrome. Chronic presentation also involves dermatitis, gingivitis, stomatitis, tremor and neuropsychiatric symptoms of erethism.
- Absorbed inorganic mercury does not significantly cross the blood-brain barrier.
- Emesis and lavage should be initiated following acute ingestion.
- Activated charcoal interrupts absorption; cathartics should be administered when charcoal is given.
- The use of British Anti-Lewisite is indicated in severe inorganic poisoning. Newer derivatives of BAL (e.g. dimercaptosuccinic acid, [DMSA] and 2,3-dimercapto-1-propanesulfate [DMPS]) may prove more effective. [Ellenhorn and Barceloux: Medical Toxicology]

BIOLOGICAL EXPOSURE INDEX - BEI

These represent the determinants observed in specimens from a healthy worker exposed at the Exposure Standard (ES or TLV).

Determinant	Index	Sampling Time	Comments
1. Total inorganic mercury in urine	35 ug/gm creatinine	Preshift	В
2. Total inorganic mercury in blood	15 ug/L	End of shift at end of workweek	В

B: Background levels occur in specimens collected from subjects NOT exposed.

SECTION 5 Firefighting measures

Extinguishing media

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).

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- 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 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.
Fire/Explosion 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) nitrogen oxides (NOx) other pyrolysis products typical of burning organic material. May emit corrosive fumes.

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	 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	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.

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

SECTION 7 Handling and storage

Precautions for safe handling	
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. 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.
Other information	 Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. 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 safe storage, including any incompatibilities

	Metal can or drum
Suitable container	Packaging as recommended by manufacturer.
	Check all containers are clearly labelled and free from leaks.

Storage incompatibility

Avoid reaction with oxidising agents
Avoid strong acids, bases.

isocyanates

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Ingredient	Material name	TWA	STEL	Peak	Notes
N-methyl- 2-pyrrolidone	1-Methyl- 2-pyrrolidone	25 ppm / 103 mg/m3	309 mg/m3 / 75 ppm	Not Available	(skin) - Skin absorption
TEEL-1		TEEL-2	т	EEL-3	
30 ppm		32 ppm	1:	90 ppm	
2 mg/m3		22 mg/m3	4	7 mg/m3	
			During LIDI II		
	N-methyl- 2-pyrrolidone TEEL-1 30 ppm	N-methyl- 1-Methyl- 2-pyrrolidone 2-pyrrolidone TEEL-1 30 ppm 2 mg/m3 2	N-methyl- 2-pyrrolidone 1-Methyl- 2-pyrrolidone 25 ppm / 103 mg/m3 TEEL-1 TEEL-2 30 ppm 32 ppm 2 mg/m3 22 mg/m3	N-methyl- 2-pyrrolidone 1-Methyl- 2-pyrrolidone 25 ppm / 103 mg/m3 309 mg/m3 / 75 ppm TEEL-1 TEEL-2 TI 30 ppm 32 ppm 15 15 15 15 15 15 15 15 15 15 15 15 15 1	N-methyl- 2-pyrrolidone 1-Methyl- 2-pyrrolidone 25 ppm / 103 mg/m3 309 mg/m3 / 75 ppm Not Available TEEL-1 TEEL-2 TEEL-3 30 ppm 32 ppm 190 ppm 2 mg/m3 22 mg/m3 47 mg/m3

N-methyl-2-pyrrolidone	Not Available	Not Available
phenylmercuric acetate	10 mg/m3	Not Available
Occupational Exposure Banding		

Ingredient Occupational Exposure Band Rating Occupational Exposure Band Limit phenylmercuric acetate E ≤ 0.01 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.

Appropriate engineering 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.			
Individual protection measures, such as personal protective equipment				
Eye and face protection	 Contact lenses the wearing of le and adsorption their removal ar 	es. [AS/NZS 1337.1, Et may pose a special haz enses or restrictions on for the class of chemica	use, should be created for Is in use and an account hould be readily available	nt] ay absorb and concentrate irritants. A written policy document, describing r each workplace or task. This should include a review of lens absorption of injury experience. Medical and first-aid personnel should be trained in In the event of chemical exposure, begin eye irrigation immediately and
Skin protection	See Hand protection	n below		
Hands/feet protection	manufacturer. Wher and has therefore to The exact break thr making a final choic Personal hygiene is washed and dried th WARNING: Do NO ⁰ In 1997, a resea almost a year b Heavy metals a before she laps	e the chemical is a prep be checked prior to the ough time for substance e. a key element of effect toroughly. Application of I use latex or PVC glo archer (Dr. Karen E. We efore. nd organic metal compo ed into a vegetative stat	variation of several substa e application. Is has to be obtained from ive hand care. Gloves mu f a non-perfumed moistur ves tterhahn) died from orgar punds, in particular, have te, Dr. Wetterhahn asked	I, but also on further marks of quality which vary from manufacturer to nees, the resistance of the glove material can not be calculated in advance the manufacturer of the protective gloves and has to be observed when st only be worn on clean hands. After using gloves, hands should be ser is recommended. ic mercury poisoning, resulting from a single exposure to dimethylmercury posed special hazards in worker protection. At the time of diagnosis and that her case be made known to others. hylmercury produced the following results*.
	Glove material	Thickness in mm*	Breakthrough Time	
	Nitrile	0.2	0.25 minutes	
	Neoprene	0.8	<10 mins.	
	Butyl	0.33	<15 mins.	
	Viton	0.28	<15 mins.	

Other protection	 Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. Eye wash unit.
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Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

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Material	CPI
BUTYL	А
PE/EVAL/PE	А
NATURAL RUBBER	В
PVA	В

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Respiratory protection

Type AK 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 5 x ES	AK-AUS / Class 1	-	AK-PAPR-AUS / Class 1
up to 25 x ES	Air-line*	AK-2	AK-PAPR-2
up to 50 x ES	-	AK-3	-
50+ x ES	-	Air-line**	-

^ - 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	Hazy liquid with slight characteristic odour; slightly mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	1.02 @25C
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	316.20 @25C
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	>177 (PMCC)	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)	0.66
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Partly miscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Available	VOC g/L	<6.740

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	

SECTION 11 Toxicological information

Information on toxicological effects

ormation on toxicological e			
Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.		
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.		
Skin Contact	There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering. 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.		
Eye	Although the liquid 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	Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. Ample evidence exists, from results in experimentation, that developmental disorders are directly caused by human exposure to the material.		
	τοχιςιτγ	IRRITATION	
WC565 PART B	Not Available	Not Available	
	τοχιςιτγ	IRRITATION	
	Dermal (rabbit) LD50: 8000 mg/kg ^[2]	Eye (rabbit): 100 mg - moderate *[Manufacturer]	
N-methyl-2-pyrrolidone	Dermal (rabbit) LD50: 8000 mg/kg ^[2] Inhalation(Rat) LC50: 3.1-8.8 mg/l4h ^[2]	Eye (rabbit): 100 mg - moderate *[Manufacturer]	
N-methyl-2-pyrrolidone		Eye (rabbit): 100 mg - moderate *[Manufacturer]	
N-methyl-2-pyrrolidone	Inhalation(Rat) LC50: 3.1-8.8 mg/l4h ^[2]	Eye (rabbit): 100 mg - moderate *[Manufacturer] IRRITATION	
N-methyl-2-pyrrolidone	Inhalation(Rat) LC50: 3.1-8.8 mg/l4h ^[2] Oral (Rat) LD50: 3914 mg/kg ^[2]		

Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

	For N-methyl-2-pyrrolidone (NMP):
	Acute toxicity: Animal testing shows NMP is quickly absorbed after inhalation, swallowing and administration on skin, distributed throughout the body, and eliminated mostly by hydroxylation to polar compounds, which are excreted in the urine. In animal testing NMP has a low potential for skin irritation and a moderate potential for eye irritation. Repeated daily doses of high amounts on the skin have caused severe, painful bleeding and eschar formation. In general, animal testing suggests NMP has low acute toxicity. Exposure to toxic amounts caused functional disturbances and depression of the central nervous system. Local irritation of the airway occurred after inhalation, and irritation of the gastrointestinal tract occurred after swallowing in animals.
	Repeat dose toxicity: There is no clear toxicity profile for NMP after multiple administration. In animal testing, shrinking of the testes and thymus
	gland were observed, together with an increase in red blood cells, after exposure to high amounts.
	A substance (or part of a group of chemical substances) of very high concern (SVHC) - or product containing an SVHC:
	It is proposed that use within the European Union be subject to authorisation under the REACH Regulation.Indeed, listing of a substance as an SVHC by the European Chemicals Agency (ECHA) is the first step in the procedure for authorisation or restriction of use of a chemical. The criteria are given in article 57 of the REACH Regulation. A substance may be proposed as an SVHC if it meets one or more of the following criteria:
	it is carcinogenic *;
N-METHYL-2-PYRROLIDONE	tit is mutagenic *;
	▶ it is toxic for reproduction *;
	ti is persistent, bioaccumulative and toxic (PBT substances);
	 it is very persistent and very bioaccumulative (vPvB substances);
	there is "scientific evidence of probable serious effects to human health or the environment which give rise to an equivalent level of concern"; such substances are identified on a case-by-case basis.
	* Collectively described as CMR substances
	The "equivalent concern" criterion is significant because it is this classification which allows substances which are, for example, neurotoxic, endocrine-disrupting or otherwise present an unanticipated environmental health risk to be regulated under REACH]
	Simply because a substance meets one or more of the criteria does not necessarily mean that it will be proposed as an SVHC. Many such substances are already subject to restrictions on their use within the European Union, such as those in Annex XVII of the REACH Regulation
	SVHCs are substances for which the current restrictions on use (where these exist) might be insufficient. There are three priority groups for assessment:
	PBT substances and vPvB substances;
	substances which are widely dispersed during use;
	substances which are used in large quantities.
	Bacterial mutagen The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may
PHENYLMERCURIC ACETATE	The material may produce severe initiation to the eye causing profounced minimitation. Repeated or profinged exposure to mitation may produce conjunctivitis.
	The material may cause severe 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. Repeated exposures may produce severe ulceration.

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main

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N-METHYL-2-PYRROLIDONE & PHENYLMERCURIC ACETATE	criteria for diagnosing RADS include the absence of previous arrways 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.		
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	¥
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
			not available or does not fill the criteria for classification before to make classification

SECTION 12 Ecological information

Toxicity

WC565 PART B	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	NOEC(ECx)	504h	Crustacea	12.5mg/l	2
N-methyl-2-pyrrolidone	EC50	72h	Algae or other aquatic plants	>500mg/l	1
	LC50	96h	Fish	464mg/l	1
	EC50	48h	Crustacea	ca.4897mg/l	1
	Endpoint	Test Duration (hr)	Species	Value	Source
phenylmercuric acetate	NOEC(ECx)	96h	Fish	0.025mg/L	4
	LC50	96h	Fish	0.0086mg/l	4
Legend:	Ecotox databas		gistered Substances - Ecotoxicological Informat ic Hazard Assessment Data 6. NITE (Japan) - B		

Harmful to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

DO NOT discharge into sewer or waterways

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
N-methyl-2-pyrrolidone	LOW	LOW
phenylmercuric acetate	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
N-methyl-2-pyrrolidone	LOW (BCF = 0.16)
phenylmercuric acetate	LOW (LogKOW = 0.71)

Mobility in soil

Ingredient	Mobility
N-methyl-2-pyrrolidone	LOW (KOC = 20.94)
phenylmercuric acetate	LOW (KOC = 171.8)

SECTION 13 Disposal considerations

Waste treatment methods		
Product / Packaging disposal	 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. 	

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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.

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

Disposal Requirements

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous. Only dispose to the environment if a tolerable exposure limit has been set for the substance.

Only deposit the hazardous substance into or onto a landfill or sewage facility or incinerator, where the hazardous substance can be handled and treated appropriately.

SECTION 14 Transport information

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (UN): 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

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

Not Applicable

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

Product name	Group
N-methyl-2-pyrrolidone	Not Available
phenylmercuric acetate	Not Available

Transport in bulk in accordance with the IGC Code

Product name	Ship Type
N-methyl-2-pyrrolidone	Not Available
phenylmercuric acetate	Not Available

SECTION 15 Regulatory information

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

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard
HSR002521	Animal Nutritional and Animal Care Products Group Standard 2020
HSR002530	Cleaning Products Subsidiary Hazard Group Standard 2020
HSR002535	Gases under Pressure Mixtures Subsidiary Hazard Group Standard 2020
HSR002503	Additives Process Chemicals and Raw Materials Subsidiary Hazard Group Standard 2020
HSR002606	Lubricants Lubricant Additives Coolants and Anti freeze Agents Subsidiary Hazard Group Standard 2020
HSR002612	Metal Industry Products Subsidiary Hazard Group Standard 2020
HSR002624	N.O.S. Subsidiary Hazard Group Standard 2020
HSR002638	Photographic Chemicals Subsidiary Hazard Group Standard 2020
HSR002644	Polymers Subsidiary Hazard Group Standard 2020
HSR002648	Refining Catalysts Group Standard 2020
HSR002653	Solvents Subsidiary Hazard Group Standard 2020
HSR002670	Surface Coatings and Colourants Subsidiary Hazard Group Standard 2020
HSR002684	Water Treatment Chemicals Subsidiary Hazard Group Standard 2020
HSR100425	Pharmaceutical Active Ingredients Group Standard 2020
HSR002600	Leather and Textile Products Subsidiary Hazard Group Standard 2020
HSR002544	Construction Products Subsidiary Hazard Group Standard 2020
HSR002549	Corrosion Inhibitors Subsidiary Hazard Group Standard 2020
HSR002558	Dental Products Subsidiary Hazard Group Standard 2020
HSR002565	Embalming Products Subsidiary Hazard Group Standard 2020
HSR002571	Fertilisers Subsidiary Hazard Group Standard 2020

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HSR002573Fire Fighting Chemicals Group Standard 2021HSR002585Fuel Additives Subsidiary Hazard Group Standard 2020HSR100757Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020HSR100758Veterinary Medicines Non dispersive Closed System Application Group Standard 2020HSR100759Veterinary Medicines Non dispersive Open System Application Group Standard 2020HSR100592Agricultural Compounds Special Circumstances Group Standard 2020HSR100756Active Ingredients for Use in the Manufacture of Agricultural Compounds Group Standard 2020	HSR Number	Group Standard
HSR100757Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020HSR100758Veterinary Medicines Non dispersive Closed System Application Group Standard 2020HSR100759Veterinary Medicines Non dispersive Open System Application Group Standard 2020HSR100592Agricultural Compounds Special Circumstances Group Standard 2020	HSR002573	Fire Fighting Chemicals Group Standard 2021
HSR100758Veterinary Medicines Non dispersive Closed System Application Group Standard 2020HSR100759Veterinary Medicines Non dispersive Open System Application Group Standard 2020HSR100592Agricultural Compounds Special Circumstances Group Standard 2020	HSR002585	Fuel Additives Subsidiary Hazard Group Standard 2020
HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard 2020 HSR100592 Agricultural Compounds Special Circumstances Group Standard 2020	HSR100757	Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020
HSR100592 Agricultural Compounds Special Circumstances Group Standard 2020	HSR100758	Veterinary Medicines Non dispersive Closed System Application Group Standard 2020
	HSR100759	Veterinary Medicines Non dispersive Open System Application Group Standard 2020
HSR100756 Active Ingredients for Use in the Manufacture of Agricultural Compounds Group Standard 2020	HSR100592	Agricultural Compounds Special Circumstances Group Standard 2020
	HSR100756	Active Ingredients for Use in the Manufacture of Agricultural Compounds Group Standard 2020

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

N-methyl-2-pyrrolidone is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List New Zealand Approved Hazardous Substances with controls	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification	New Zealand Inventory of Chemicals (NZIoC)
of Chemicals	New Zealand Workplace Exposure Standards (WES)
phenylmercuric acetate is found on the following regulatory lists	
Chemical Footprint Project - Chemicals of High Concern List	New Zealand Inventory of Chemicals (NZIoC)
New Zealand Approved Hazardous Substances with controls	United Nations List of Prior Informed Consent Chemicals

WHO Recommended Classification of Pesticides by Hazard - Table 7. Pesticides

subject to the Rotterdam Convention

New Zealand Approved Hazardous Substances with controls New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantities	
Not Applicable	Not Applicable	

Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (N-methyl-2-pyrrolidone; phenylmercuric acetate)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

SECTION 16 Other information

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Revision Date	16/03/2023
Initial Date	18/09/2006

SDS Version Summary

Version	Date of Update	Sections Updated
8.1	10/12/2021	Classification change due to full database hazard calculation/update.
10.1	16/03/2023	Hazards identification - Classification, Identification of the substance / mixture and of the company / undertaking - Supplier Information, Identification of the substance / mixture and of the company / undertaking - Synonyms

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 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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