

# **UV ADDITIVE BARNES PRODUCTS PTY LTD**

Chemwatch: 5255-08 Version No: 7.1

Chemwatch Hazard Alert Code: 2

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S.GHS.NZL.EN.E

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

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

#### **Product Identifier**

Product name	UV ADDITIVE	
Chemical Name	Not Applicable	
Synonyms	POLYTEK UV ADDITIVE,; POLYURETHANE UV ADDITIVE	
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate)	
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 Additive for liquid polyurethane systems to improve exterior durability of cured rubber/plastic. For Industrial/Professional use only.

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

Registered company name	BARNES PRODUCTS PTY LTD	
Address	GREENHILLS AVE MOOREBANK NSW 2170 Australia	
Telephone	arnes 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**

#### Classification of the substance or mixture

Classification <sup>[1]</sup>	Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2, Germ Cell Mutagenicity Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 1
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	6.1D (oral), 6.3A, 6.4A, 6.5B (contact), 6.6B, 9.1A

#### Label elements

Hazard pictogram(s)
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Signal word

Warning

### Hazard statement(s)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects.

H410 Very toxic to aquatic life with long lasting effects.

r recationary statement(s) r revention	
P201	Obtain special instructions before use.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P261	Avoid breathing mist/vapours/spray.
P264	Wash all exposed external body areas thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.

### Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.	
P302+P352	IF ON SKIN: Wash with plenty of water.	
P305+P351+P338	IF 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.	
P391	Collect spillage.	

# Precautionary statement(s) Storage

P405 Store locked up.

#### Precautionary statement(s) Disposal

P501 Dis

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
57834-33-0	50-55	N-(ethoxycarbonylphenyl)-N'-methyl-N'-phenylformamidine
41556-26-7	30-35	bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate
82919-37-7	10-15	methyl 1.2.2.6.6-pentamethyl-4-piperidyl sebacate
25550-98-5	5-10	diisodecyl phenyl phosphite
100-61-8	0.5-1	<u>N-methylaniline</u>
Legend:	Legend: 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOEL Vs available	

#### **SECTION 4 First aid measures**

#### Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# 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	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</li> <li>Do not approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> </ul>		
Fire/Explosion Hazard	<ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> <li>Mists containing combustible materials may be explosive.</li> </ul>		

#### **SECTION 6 Accidental release measures**

# Personal precautions, protective equipment and emergency procedures

See section 8

### Environmental precautions

See section 12

### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Environmental hazard - contain spillage.</li> <li>Slippery when spilt.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	<ul> <li>Environmental hazard - contain spillage.</li> <li>Slippery when spilt.</li> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Stop leak if safe to do so.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Collect recoverable product into labelled containers for recycling.</li> </ul>

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

# SECTION 7 Handling and storage

recautions for safe handling		
Safe handling	<ul> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> <li>Limit all unnecessary personal contact.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>When handling DO NOT eat, drink or smoke.</li> <li>Always wash hands with soap and water after handling.</li> <li>Avoid physical damage to containers.</li> <li>Use good occupational work practice.</li> </ul>	
Other information	<ul> <li>Store at 15-35 degC.</li> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>	

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

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

Storage incompatibility

Avoid reaction with oxidising agents
Avoid strong acids, bases.

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

#### **Control parameters**

#### Occupational Exposure Limits (OEL)

# INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes	
New Zealand Workplace Exposure Standards (WES)	N-methylaniline	N-Methyl aniline	0.5 ppm / 2.2 mg/m3	Not Available	Not Available	(skin) - Skin absorption	
Emergency Limits							
Ingredient	TEEL-1		TEEL-2	TEEL-3			
N-methylaniline	1.5 ppm		17 ppm		100 ppm		
Ingredient	Original IDLH	Original IDLH			Revised IDLH		
N-(ethoxycarbonylphenyl)- N'-methyl-N'-phenylformamidine	Not Available	-		Not Available			
bis(1,2,2,6,6-pentamethyl- 4-piperidyl)sebacate	Not Available			Not Available			
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	Not Available		Not Available				
diisodecyl phenyl phosphite	Not Available		Not Available				
N-methylaniline	100 ppm		Not Available				
Occupational Exposure Banding	I						
Ingredient	Occupational Exp	osure Band Rating		Occupational Exp	osure Band Limit		
N-(ethoxycarbonylphenyl)- N'-methyl-N'-phenylformamidine	E	E		≤ 0.1 ppm			
bis(1,2,2,6,6-pentamethyl- 4-piperidyl)sebacate	D		> 0.1 to ≤ 1 ppm				
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	D		> 0.1 to ≤ 1 ppm				
diisodecyl phenyl phosphite	E	E		≤ 0.1 ppm			
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the						

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.

# Exposure controls

Appropriate engineering controls		
Individual protection measures, such as personal protective equipment		
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. 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.</li> </ul>	
Skin protection	See Hand protection below	
Skin protection       See Hand protection below         Image: Wear chemical protective gloves, e.g. PVC.       Wear safety footwear or safety gumboots, e.g. Rubber         NOTE:       The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves ar equipment, to avoid all possible skin contact.         Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.         The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be or and has therefore to be checked prior to the application.         The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to making a final choice.         Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, ha washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.		

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### **UV ADDITIVE**

Body protection See Other protection below

Other protection	<ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>

#### **Respiratory protection**

Type AK-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	AK-AUS P2	-	AK-PAPR-AUS / Class 1 P2
up to 50 x ES	-	AK-AUS / Class 1 P2	-
up to 100 x ES	-	AK-2 P2	AK-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.

• 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 Clear amber liquid; partly mixes with water.

••			
Physical state	Liquid	Relative density (Water = 1)	1.05
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)	Not Available
Initial boiling point and boiling range (°C)	190	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	170	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)	2000 cP @ 25C	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	Not Available

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

### **SECTION 11 Toxicological information**

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#### Information on toxicological effects

	The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC
nhaled	Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one oth

one other

	route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.			
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Ingestion may result in nausea, abdominal irritation, pain and vomiting			
Skin Contact	The liquid may be able to be mixed with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is unlikely to produce an irritant dermatitis as described in EC Directives. 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	Speculative discussions suspects that the absorption of UVI	itisation reaction in some persons compared to the general population. B by the sunscreens chemical agents may enhance free radical formation, DNA rell as, decrease in Vitamin D production, which has been suggested to potentiate		
	ΤΟΧΙCΙΤΥ	IRRITATION		
UV ADDITIVE	Not Available	Not Available		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
N-(ethoxycarbonylphenyl)- N'-methyl-	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>		
N'-phenylformamidine	Oral (Rat) LD50: >1000 mg/kg <sup>[2]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>		
		, <b>.</b>		
bis(1,2,2,6,6-pentamethyl-	ΤΟΧΙΟΙΤΥ	IRRITATION		
4-piperidyl)sebacate	Oral (Rat) LD50: 3100 mg/kg <sup>[2]</sup>	Not Available		
mothyl 1 2 2 6 6 nontomothyl	ΤΟΧΙΟΙΤΥ	IRRITATION		
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	Not Available	Not Available		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
	dermal (rat) LD50: >2000 mg/kg <sup>[2]</sup>	Not Available		
diisodecyl phenyl phosphite	Inhalation(Rat) LC50: >2.925 mg/L4h <sup>[2]</sup>			
	Oral (Rat) LD50: >5000 mg/kg <sup>[2]</sup>			
	ΤΟΧΙCITY	IRRITATION		
N-methylaniline	Oral (Rat) LD50: 716 mg/kg <sup>[1]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>		
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>		
Legend:	1. Value obtained from Europe ECHA Registered Substance specified data extracted from RTECS - Register of Toxic Eff	es - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise fect of chemical Substances		
N-(ETHOXYCARBONYLPHENYL)- N'-METHYL- N'-PHENYLFORMAMIDINE	attempts. Limited data from human oral exposures indica monoamine oxidase (MAO) activity and blurred vision. G animals ability to maintain homeostasis for at least 24 ho a reversible sedative effect. Formamidine pesticides may exert their effects on the ce alpha-2 subtype This interaction appears to mediate seve diameter, visual evoked potential and hormonal secretion	ed to agricultural and production workers, as well as intentional ingestion in suicide ates that effects include lethargy, vomiting, muscle weakness, headaches, decreased eneral side-effects of formamidines in mammals are possible alterations in the nurs after exposure. A symptom often observed with formamidine treated mammals is entral nervous system by interacting directly with adrenergic receptors, particularly the eral of the observed effects of formamidines, such as changes in heart rate, pupil n. rom arachidonic acid by bovine seminal vesicle microsomes.		
DIISODECYL PHENYL PHOSPHITE				
N-METHYLANILINE	Flaccid paralysis, somnolence, convulsions, dyspnae and respiratory depression recorded.			
UV ADDITIVE & N-(ETHOXYCARBONYLPHENYL)- N'-METHYL- N'-PHENYLFORMAMIDINE & BIS(1,2,2,6,6-PENTAMETHYL- 4-PIPERIDYL)SEBACATE & METHYL 1,2,2,6,6 PENTAMETHYL-4-PIPERIDYL SEBACATE & DIISODECYL PHENYL PHOSPHITE	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 (T lymphocytes) immune reaction of the contact allergen is not simply determined by its sensitisation potential:			
UV ADDITIVE & METHYL 1,2,2,6,6-PENTAMETHYL- 4-PIPERIDYL SEBACATE	No significant acute toxicological data identified in literature search.			



Acute Toxicity	¥	Carcinogenicity	×
Skin Irritation/Corrosion	✓	Reproductivity	×
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	×
Respiratory or Skin sensitisation	✓	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
			t available or does not fill the criteria for classification to make classification

### **SECTION 12 Ecological information**

Toxicity
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	Endpoint	Test Duration (hr)	Species	V	alue	Source
UV ADDITIVE	Not Available	Not Available	Not Available		ot vailable	Not Available
	Endpoint	Test Duration (hr)	Species	V	/alue	Source
	ErC50	72h	Algae or other aquatic plants	2	29.09mg/l	2
N-(ethoxycarbonylphenyl)-	EC50(ECx)	72h	Algae or other aquatic plants	2	2.53mg/l	2
N'-methyl- N'-phenylformamidine	EC50	72h	Algae or other aquatic plants	2	2.53mg/l	2
	LC50	96h	Fish	1	I.4mg/I	2
	EC50	48h	Crustacea	2	2.7mg/l	2
	Endpoint	Test Duration (hr)	Species		Value	Source
bis(1,2,2,6,6-pentamethyl- 4-piperidyl)sebacate	EC0(ECx)	24h	Crustacea		<10mg/l	1
4 piperia jijeebadate	LC50	96h	Fish		0.34mg/l	1
	Endpoint	Test Duration (hr)	Species	V	alue	Source
ethyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	Not Available	Not Available	Not Available		ot vailable	Not Availabl
	Endpoint	Test Duration (hr)	Species	v	/alue	Source
diisodecyl phenyl phosphite	NOEC(ECx)	48h	Crustacea	<	<0.04mg/l	1
	EC50	48h	Crustacea	0	).2mg/l	1
	Endpoint	Test Duration (hr)	Species	Value		Sourc
	ErC50	72h	Algae or other aquatic plants	3.8mg/l		2
	LC50	96h	Fish	0.074-0.	.077mg/L	4
N-methylaniline	BCF	1008h	Fish	0.7-4.1		7
	EC50	72h	Algae or other aquatic plants	3.8mg/l		2
	NOEC(ECx)	96h	Fish	0.021mg	g/L	4
	EC50	96h	Algae or other aquatic plants	40-48mg	g/l	4
Legend:		, ,	CHA Registered Substances - Ecotoxicological In Aquatic Hazard Assessment Data 6. NITE (Japa	,		,

Very toxic 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.

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

For UV Filters:

Aquatic Fate/Ecotoxicity: UV filters have been detected in surface water, wastewater and fish, and some of them having an action similar to that of an estrogen in fish. At present, little is known about their additional hormonal activities in different hormonal receptor systems despite their increasing use and environmental persistence. Besides estrogenic activity, UV filters may have additional activities, both agonistic and antagonistic, in aquatic organisms. Although most of the UV filters exert hormonal effects at concentrations that are orders of magnitude higher than in the environment, wide distribution and exposure to UV filter mixtures may have environmental consequences due to additive effects. The UV filters 4-methylbenzylidene camphor, benzophenone-3, benzophenone-4, octyl methoxycinnamate, octorylene and homosalate that repeatedly were detected in the aquatic environment, may contribute with their multiple hormonal activities in a complex manner to the mixture of endocrine disrupting chemicals already present in surface water and fish. For most of the UV filters with multiple hormonal activities residues in the aquatic environment and in biota are not yet known, and therefore their environmental relevance remains elusive. **DO NOT** discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
diisodecyl phenyl phosphite	HIGH	HIGH
N-methylaniline	HIGH	HIGH

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
diisodecyl phenyl phosphite	LOW (LogKOW = 10.4149)

Ingredient	Bioaccumulation	
N-methylaniline	LOW (BCF = 10)	
Mobility in soil		
Ingredient	Mobility	

Ingredient	Mobility
diisodecyl phenyl phosphite	LOW (KOC = 236200000)
N-methylaniline	LOW (KOC = 65.01)

# **SECTION 13 Disposal considerations**

Waste treatment methods			
Product / Packaging disposal	<ul> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Authority for disposal.</li> <li>Bury or incinerate residue at an approved site.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>		

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	
HAZCHEM	•3Z
Land transport (UN)	
UN number or ID number	3082

UN number or ID number	3082	3082		
UN proper shipping name	ENVIRONMENTALLY	NVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate)		
Transport hazard class(es)		9 Not Applicable		
Packing group	II			
Environmental hazard	Environmentally hazardous			
Special precautions for user	Special provisions     274; 331; 335; 375       Limited quantity     5 L			

#### Air transport (ICAO-IATA / DGR)

UN number	3082			
UN proper shipping name	Environmentally hazardo	Environmentally hazardous substance, liquid, n.o.s. (contains bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate)		
	ICAO/IATA Class	9		
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
	ERG Code	9L		
Packing group	II			
Environmental hazard	Environmentally hazardous			
	Special provisions A97 A158 A197 A215			
Special precautions for user	Cargo Only Packing Instructions		964	
	Cargo Only Maximum Qty / Pack 450 L		450 L	

Passenger and Cargo Packing Instructions 964	
Passenger and Cargo Maximum Qty / Pack 450 L	
Passenger and Cargo Limited Quantity Packing Instructions Y964	
Passenger and Cargo Limited Maximum Qty / Pack 30 kg G	

# Sea transport (IMDG-Code / GGVSee)

UN number	3082		
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate)		
Transport hazard class(es)	IMDG Class 9 IMDG Subrisk Not Ap	plicable	
Packing group	III		
Environmental hazard	Marine Pollutant		
Special precautions for user		A, S-F 4 335 969	

# 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-(ethoxycarbonylphenyl)- N'-methyl-N'-phenylformamidine	Not Available
bis(1,2,2,6,6-pentamethyl- 4-piperidyl)sebacate	Not Available
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	Not Available
diisodecyl phenyl phosphite	Not Available
N-methylaniline	Not Available

# Transport in bulk in accordance with the IGC Code

Product name	Ship Type
N-(ethoxycarbonylphenyl)- N'-methyl-N'-phenylformamidine	Not Available
bis(1,2,2,6,6-pentamethyl- 4-piperidyl)sebacate	Not Available
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	Not Available
diisodecyl phenyl phosphite	Not Available
N-methylaniline	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	nimal 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		
HSR002647	Reagent Kits 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		

HSR Number	Group Standard
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
HSR002552	Cosmetic Products 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
HSR002573	Fire Fighting Chemicals Group Standard 2021
HSR002578	Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020
HSR002585	Fuel Additives Subsidiary Hazard Group Standard 2020
HSR002596	Laboratory Chemicals and Reagent Kits Group Standard 2020
HSR100757	Veterinary Medicines Limited Pack Size Finished Dose 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
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-(ethoxycarbonylphenyl)-N'-methyl-N'-phenylformamidine is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

#### bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

### methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

#### diisodecyl phenyl phosphite is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

#### N-methylaniline is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List 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	

New Zealand Inventory of Chemicals (NZIoC) New Zealand Workplace Exposure Standards (WES)

#### **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
6.5A or 6.5B	120	1	3	

#### **Tracking Requirements**

Not Applicable

#### **National Inventory Status**

National	Inventory

National Inventory	Status		
Australia - AIIC / Australia Non-Industrial Use	Yes		
Canada - DSL	No (N-(ethoxycarbonylphenyl)-N'-methyl-N'-phenylformamidine)		
Canada - NDSL	No (bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate; methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate; diisodecyl phenyl phosphite; N-methylaniline)		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	Yes		
		Continued	

National Inventory	Status			
Japan - ENCS	No (N-(ethoxycarbonylphenyl)-N'-methyl-N'-phenylformamidine)			
Korea - KECI	Yes			
New Zealand - NZIoC	/es			
Philippines - PICCS	5			
USA - TSCA	/es			
Taiwan - TCSI	Yes			
Mexico - INSQ	No (N-(ethoxycarbonylphenyl)-N'-methyl-N'-phenylformamidine; methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate; diisodecyl phenyl phosphite)			
Vietnam - NCI	Yes			
Russia - FBEPH	No (N-(ethoxycarbonylphenyl)-N'-methyl-N'-phenylformamidine; methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate)			
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	17/03/2023
Initial Date	23/05/2017

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
5.1	10/12/2021	Classification change due to full database hazard calculation/update.
7.1	17/03/2023	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, Name

#### 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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