

Dunlop Primer and Additive Ardex (Ardex NZ)

Chemwatch: **5453-15** Version No: **2.1.1.1** Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Chemwatch Hazard Alert Code: 2

Issue Date: **11/02/2021** Print Date: **14/02/2021** S.GHS.NZL.EN

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

Product Identifier

Product name	Dunlop Primer and Additive
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	Not Available

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

Additive for sand and cement mixes and cement based adhesives, improves adhesion of cement render and as an additive for the preparation of a splash coat.

Details of the supplier of the safety data sheet

Relevant identified uses

Registered company name	Ardex (Ardex NZ)
Address	32 Lane Street Woolston Christchurch New Zealand
Telephone	+64 3384 3029
Fax	+64 3384 9779
Website	Not Available
Email	Not Available

Emergency telephone number

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Association / Organisation	Ardex (Ardex NZ)
Emergency telephone numbers	+64 3 373 6900
Other emergency telephone numbers	0800 764 766 (NZ NPC)

SECTION 2 Hazards identification

Classification of the substance or mixture

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Not regulated for transport of Dangerous Goods.

ChemWatch Hazard Ratings

	Min	Max	
Flammability	0		
Toxicity	0		0 = Minimum
Body Contact	2	1	1 = Low
Reactivity	0	1	2 = Moderate
Chronic	2	1	3 = High 4 = Extreme

Classification ^[1]	Skin Corrosion/Irritation Category 2, Skin Sensitizer Category 1, Eye Irritation Category 2
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	6.3A, 6.4A, 6.5B (contact)

Hazard pictogram(s)	
Signal word	Warning

Hazard statement(s)	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Precautionary statement(s) Prevention

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P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.

Precautionary statement(s) Response

P321	Specific treatment (see advice on this label).
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.

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
2634-33-5	<0.1	1.2-benzisothiazoline-3-one
2682-20-4	<0.1	2-methyl-4-isothiazolin-3-one
Not Available	balance	Ingredients determined not to be hazardous

SECTION 4 First aid measures

Description of first aid measures

Eye Contact	 If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating 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, without delay.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should

take into account surrounding areas.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances. In such an event consider:

foam.

Special hazards arising from the substrate or mixture

Fire Incompatibility None known.

Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area.
	 The material is not readily combustible under normal conditions. However, it will break down under fire conditions and the organic component may burn. Not considered to be a significant fire risk. Heat may cause expansion or decomposition with violent rupture of containers.
Fire/Explosion Hazard	Decomposes on heating and produces toxic fumes of: carbon dioxide (CO2) nitrogen oxides (NOx) other pyrolysis products typical of burning organic material. May emit poisonous fumes. 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	 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.
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.

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

SECTION 7 Handling and storage

Precautions for safe handling	
Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT allow clothing wet with material to stay in contact with skin
Other information	 Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers.

Conditions for safe storage, including any incompatibilities

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Suitable container	 Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	Avoid contamination of water, foodstuffs, feed or seed.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Not Available

Emergency Limits

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
Dunlop Primer and Additive	Not Available	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH	
1,2-benzisothiazoline-3-one	Not Available	Not Available	
2-methyl-4-isothiazolin-3-one	Not Available	Not Available	
Occupational Exposure Banding			
Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
	_		

1,2-benzisothiazoline-3-one	E	≤ 0.01 mg/m³
2-methyl-4-isothiazolin-3-one	D > 0.01 to ≤ 0.1 mg/m³	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.	

Exposure controls

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.
Personal protection	
Eye and face protection	 Safety glasses with side shields. Chemical goggles. 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.
Skin protection	See Hand protection below
Hands/feet protection	 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 and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care.
Body protection	See Other protection below
Other protection	 Overalls. P.V.C apron. Barrier cream. Skin cleansing cream.

Respiratory protection

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:

Dunlop Primer and Additive

Material	СРІ
BUTYL	A
NEOPRENE	A
VITON	A
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
PE	С
PE/EVAL/PE	С
PVA	С
PVC	С
TEFLON	С

Type BKAX-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent) Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors

(defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	BKAX-AUS / Class1 P2	-
up to 50	1000	-	BKAX-AUS / Class 1 P2
up to 50	5000	Airline *	-
up to 100	5000	-	BKAX-2 P2
up to 100	10000	-	BKAX-3 P2
100+			Airline**

* - Continuous Flow ** - Continuous-flow or positive pressure demand 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)

* 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

 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

 $\ensuremath{\text{NOTE}}$ 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. 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	Milky white liquid with a slight characteristic odour; disperses in water.		
Physical state	Liquid	Relative density (Water = 1)	0.99-1.03
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	9-11	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	100	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	80 approx.
Vapour pressure (kPa)	2.33 @20C	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	0.62 @27C	VOC g/L	Not Available

SECTION 10 Stability and reactivity

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

SECTION 11 Toxicological information

Information on toxicological effects

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Inhaled	Not normally a hazard due to non-volatile nature of product There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.		
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	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition 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	This material can cause eye irritation and damage in some persons.		
Chronic	Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
Dunlop Primer and Additive	Not Available	Not Available	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
1,2-benzisothiazoline-3-one	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: adverse effect observed (irreversible damage) ^[1]	
	Oral(Rat) LD50; 454 mg/kg ^[1]	Skin: no adverse effect observed (not irritating) ^[1]	

	ΤΟΧΙΟΙΤΥ	IRRITATION	
2-methyl-4-isothiazolin-3-one	dermal (rat) LD50: 242 mg/kg ^[1]	Eye: adverse effect	ct observed (irreversible damage) ^[1]
	Oral(Rat) LD50; 120 mg/kg ^[1]	Skin: adverse effe	ct observed (corrosive) ^[1]
Legend:	1. Value obtained from Europe ECHA Registered Subst specified data extracted from RTECS - Register of Toxic		ned from manufacturer's SDS. Unless otherwise
1,2-BENZISOTHIAZOLINE-3-ONE	 Acute toxicity data show that 1,2-benzisothiazoline-C severe eye irritant. Irritation to the skin from acute dat significant skin irritation response. The neurotoxicity observed in the rat acute oral toxicit decreased activity, prostration, decreased abdominal mg/kg) and the acute dermal toxicity study (upward cu post-dose at a dose of 2000 mg/kg) were felt to be at such effects would not be observed at estimated exposed such effects would not be observed at estimated exposed included alterations in blood chemistry (decreased pla weight. Developmental toxicity studies were conducted in rations well as increased mortality. Developmental effects unossified sternebrae) but not external or visceral abrit as well as increased but not external or visceral abrit as more toxicity: In a two- generation reproductive toxicity: In a two- generation reproduction. 	ta show only mild skin irritation , but re ty study (piloerection and upward curr muscle tone, reduced righting reflex, urvature of the spine was observed in exposures in excess of those expected soure doses. Iffects after repeated oral administration ular stomach lesions in rats. In dogs, asma albumin, total protein, and alani ats with maternal effects including dec hing, haircoat staining of the anogenit consisted of increases in skeletal abr normalities.	epeated dermal application indicated a more rature of the spine at 300 mg/kg and above; and decreased rate and depth of breathing at 900 increased incidence, but this was absent after day ad from the use pattern of this pesticide and that on including decreased body weight, increased the effects occurred at lower doses than in rats, and ne aminotransferase) and increased absolute liver creased body weight gain, decreased food al region, dry brown material around the nasal area inormalities (extra sites of ossification of skull bones,
2-METHYL- 4-ISOTHIAZOLIN-3-ONE	Asthma-like symptoms may continue for months or ex- known as reactive airways dysfunction syndrome (RA criteria for diagnosing RADS include the absence of p asthma-like symptoms within minutes to hours of a do reversible airflow pattern on lung function tests, mode of minimal lymphocytic inflammation, without eosinopl Based on laboratory and animal testing, exposure to In light of potential adverse effects, and to ensure a h- has been established with the objective of ensuring a required that risk assessment of biocidal products is of assessment of the biocidal products are the utilization thus the exposure of humans and the environment to Humans may be exposed to biocidal products in differ intended for industrial sectors or professional uses on non-professional users. No significant acute toxicolog The material may be irritating to the eye, with prolong produce conjunctivitis. The material may cause skin irritation after prolonged of vesicles, scaling and thickening of the skin. Formaldehyde generators (releasers) are often used a and must be labelled with the warning sign "contains i releasing preservatives ensures that the level of freet disrupts metabolism to cause death of the organism. I	NDS) which can occur after exposure to previous airways disease in a non-atop occurrented exposure to the irritant. Ot erate to severe bronchial hyperreactivi- hilia. the material may result in irreversible armonised risk assessment and mana- high level of protection of human and carried out before they can be placed in instructions that defines the dosage, the biocidal substance. rent ways in both occupational and do hy, whereas other biocidal products ar- pical data identified in literature search red contact causing inflammation. Rep I or repeated exposure and may produ- as preservatives. The maximum author formaldehyde in the products is alway However there is a concern that forma- tions containing amines.	o high levels of highly irritating compound. Main bic individual, with sudden onset of persistent her criteria for diagnosis of RADS include a ty on methacholine challenge testing, and the lack effects and mutations in humans. agement, the EU regulatory framework for biocides animal health and the environment. To this aim, it is on the market. A central element in the risk application method and amount of applications and unestic settings. Many biocidal products are e commonly available for private use by
	NOTE: Substance has been shown to be mutagenic i cellular DNA. Considered to be a minor sensitiser in Kathon CG (1)		
1,2-BENZISOTHIAZOLINE-3-ONE & 2-METHYL- 4-ISOTHIAZOLIN-3-ONE	cellular DNA.	(1). Bruze etal - Contact Dermatitis 2 as a group and may not be specific to tact eczema, more rarely as urticaria o nune reaction of the delayed type. Oth prificance of the contact allergen is no	0: 219-39, 1989 this product. or Quincke's oedema. The pathogenesis of contact ner allergic skin reactions, e.g. contact urticaria,
& 2-METHYL-	cellular DNA. Considered to be a minor sensitiser in Kathon CG (1) The following information refers to contact allergens a Contact allergies quickly manifest themselves as cont eczema involves a cell-mediated (T lymphocytes) imm involve antibody-mediated immune reactions. The sig	(1). Bruze etal - Contact Dermatitis 2 as a group and may not be specific to tact eczema, more rarely as urticaria o nune reaction of the delayed type. Oth prificance of the contact allergen is no	0: 219-39, 1989 this product. or Quincke's oedema. The pathogenesis of contact ner allergic skin reactions, e.g. contact urticaria,
& 2-METHYL- 4-ISOTHIAZOLIN-3-ONE	cellular DNA. Considered to be a minor sensitiser in Kathon CG (1) The following information refers to contact allergens a Contact allergies quickly manifest themselves as cont eczema involves a cell-mediated (T lymphocytes) imm involve antibody-mediated immune reactions. The sig distribution of the substance and the opportunities for	(1). Bruze etal - Contact Dermatitis 2 as a group and may not be specific to tact eczema, more rarely as urticaria of mune reaction of the delayed type. Oth phificance of the contact allergen is no contact with it are equally important.	0: 219-39, 1989 this product. or Quincke's oedema. The pathogenesis of contact her allergic skin reactions, e.g. contact urticaria, t simply determined by its sensitisation potential: the
& 2-METHYL- 4-ISOTHIAZOLIN-3-ONE Acute Toxicity	cellular DNA. Considered to be a minor sensitiser in Kathon CG (1) The following information refers to contact allergens a Contact allergies quickly manifest themselves as cont eczema involves a cell-mediated (T lymphocytes) imm involve antibody-mediated immune reactions. The sig distribution of the substance and the opportunities for	(1). Bruze etal - Contact Dermatitis 2 as a group and may not be specific to tact eczema, more rarely as urticaria of nune reaction of the delayed type. Oth inificance of the contact allergen is no contact with it are equally important. Carcinogenicity	0: 219-39, 1989 this product. or Quincke's oedema. The pathogenesis of contact ner allergic skin reactions, e.g. contact urticaria, t simply determined by its sensitisation potential: the
4-ISOTHIAZOLIN-3-ONE Acute Toxicity Skin Irritation/Corrosion	cellular DNA. Considered to be a minor sensitiser in Kathon CG (1) The following information refers to contact allergens a Contact allergies quickly manifest themselves as cont eczema involves a cell-mediated (T lymphocytes) imm involve antibody-mediated immune reactions. The sig distribution of the substance and the opportunities for	(1). Bruze etal - Contact Dermatitis 2 as a group and may not be specific to tact eczema, more rarely as urticaria of nune reaction of the delayed type. Oth inficance of the contact allergen is no contact with it are equally important. Carcinogenicity Reproductivity	0: 219-39, 1989 this product. or Quincke's oedema. The pathogenesis of contact ner allergic skin reactions, e.g. contact urticaria, t simply determined by its sensitisation potential: the X

Legend:

X − Data either not available or does not fill the criteria for classification
✓ − Data available to make classification

SECTION 12 Ecological information

Toxicity

Dunlop Primer and Additive	Endpoint	Test Duration (hr)	Species		Value	Source
	Not Available	Not Available	Not Available		Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Valu	le	Source
1,2-benzisothiazoline-3-one	LC50	96	Fish	-0.0	67-0.29mg/L	4
	EC50	48	Crustacea	0.00	97-mg/L	4

	EC50	72	Algae or other aquatic plants	0.07mg/L	2
	NOEL	96	Fish	0.031-mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
2-methyl-4-isothiazolin-3-one	LC50	96	Fish	-0.06-0.09mg/L	4
	EC50	48	Crustacea	-0.14-0.19mg/L	4
	EC50	72	Algae or other aquatic plants	0.0569mg/L	2
	EC10	72	Algae or other aquatic plants	0.0346mg/L	2
	NOEC	96	Algae or other aquatic plants	0.01mg/L	2
Legend:		n 1. IUCLID Toxicity Data 2. Europe ECHA Regis	0	, ,	

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

DO NOT discharge into sewer or waterways.

Persistence and degradability			
Ingredient	Persistence: Water/Soil	Persistence: Air	
2-methyl-4-isothiazolin-3-one	HIGH	HIGH	
Bioaccumulative potential			
Ingredient	Bioaccumulation		
2-methyl-4-isothiazolin-3-one	LOW (LogKOW = -0.8767)		
Mobility in soil			
Ingredient	Mobility		
2-methyl-4-isothiazolin-3-one	LOW (KOC = 27.88)		

SECTION 13 Disposal considerations

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

SECTION 14 Transport information

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

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
1,2-benzisothiazoline-3-one	Not Available
2-methyl-4-isothiazolin-3-one	Not Available

Transport in bulk in accordance with the ICG Code

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Dunlop Primer and Additive

Product name	Ship Type
1,2-benzisothiazoline-3-one	Not Available
2-methyl-4-isothiazolin-3-one	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
HSR002544	Construction Products (Subsidiary Hazard) Group Standard 2017

1,2-benzisothiazoline-3-one is found on the following regulatory lists

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

New Zealand Inventory of Chemicals (NZIoC)

2-methyl-4-isothiazolin-3-one is found on the following regulatory lists

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

New Zealand Inventory of Chemicals (NZIoC)

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
6.5A or 6.5B	120	1	3	

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (1,2-benzisothiazoline-3-one; 2-methyl-4-isothiazolin-3-one)	
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 - ARIPS	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 and are not exempt from listing(see specific ingredients in brackets)	

SECTION 16 Other information

Revision Date 11/02/2021

Initial Date 11/02/2021

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chernwatch 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 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 This document is copyright.

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