

# Dunlop Premixed Resaflex Ardex (Ardex Australia)

Chemwatch: **5448-82** Version No: **2.1.10.8** Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements Issue Date: 04/02/2021

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

## Product Identifier

Product name	Dunlop Premixed Resaflex
Chemical Name	Not Applicable
Synonyms	water based adhesive
Chemical formula	Not Applicable
Other means of identification	Not Available

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

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

Registered company name	Ardex (Ardex Australia)	
Address	0 Powers Road Seven Hills NSW 2147 Australia	
Telephone	00 224 070	
Fax	1300 780 102	
Website	www.ardexaustralia.com	
Email	technicalservices@ardexaustralia.com	

### Emergency telephone number

Association / Organisation	Ardex (Ardex Australia)	
Emergency telephone numbers	1800 224 070 (Mon-Fri, 9am-5pm)	
Other emergency telephone numbers	Not Available	

## **SECTION 2 Hazards identification**

#### Classification of the substance or mixture

# HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

#### ChemWatch Hazard Ratings

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

Poisons Schedule	Not Applicable	
Classification <sup>[1]</sup>	Skin Sensitizer Category 1, Serious Eye Damage/Eye Irritation Category 1, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), Carcinogenicity Category 2, Skin Corrosion/Irritation Category 2	
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	



Signal word Danger

## Hazard statement(s)

(1)		
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H335	May cause respiratory irritation.	
H351	Suspected of causing cancer.	
H315	Causes skin irritation.	

## Precautionary statement(s) Prevention

P201	Obtain special instructions before use.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves, protective clothing, eye protection and face protection.	
P261	Avoid breathing mist/vapours/spray.	

## Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P308+P313 IF exposed or concerned: Get medical advice/ attention.		
P310 Immediately call a POISON CENTER/doctor/physician/first aider.		
P302+P352 IF ON SKIN: Wash with plenty of water.		

## Precautionary statement(s) Storage

P405	Store locked up.	
P403+P233 Store in a well-ventilated place. Keep container tightly closed.		

## 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
1317-65-3	30-60	calcium carbonate
1333-86-4	1-10	carbon black
2682-20-4	<0.1	2-methyl-4-isothiazolin-3-one
2634-33-5	<0.1	1.2-benzisothiazoline-3-one
Not Available	balance	Ingredients determined not to be hazardous
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs 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>Immediately hold eyelids apart and flush the eye continuously with 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>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>		
Skin Contact	If skin contact occurs: <ul> <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 or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>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.</li> </ul>		

	Transport to hospital, or doctor, without delay.
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.

#### **SECTION 5 Firefighting measures**

#### Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
  Use extinguishing media suitable for surrounding area.

### Special hazards arising from the substrate or mixture

Fire Incompatibility	bility + Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result		
Advice for firefighters			
<ul> <li>Fire Fighting</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> </ul>			
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>Decomposes on heating and produces: carbon dioxide (CO2) nitrogen oxides (NOx) metal oxides</li> </ul>		

other pyrolysis products typical of burning organic material.

#### May emit corrosive fumes. HAZCHEM Not Applicable

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

## Personal precautions, protective equipment and emergency procedures

May emit poisonous fumes

See section 8

#### **Environmental precautions**

See section 12

#### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid contact with skin and eyes.</li> <li>Wear impervious gloves and safety goggles.</li> <li>Trowel up/scrape up.</li> </ul>
Major Spills	<ul> <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> </ul>

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

## **SECTION 7 Handling and storage**

Precautions for safe handling	
Safe handling	<ul> <li>Electrostatic discharge may be generated during pumping - this may result in fire.</li> <li>Ensure electrical continuity by bonding and grounding (earthing) all equipment.</li> <li>Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (&lt;=1 m/sec until fill pipe submerged to twice its diameter, then &lt;= 7 m/sec).</li> <li>Avoid splash filling.</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> </ul>
Other information	<ul> <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> </ul>

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

Polyethylene or polypropylene container.

Suitable container	tahla containar

	<ul> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.

#### **Control parameters**

#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	calcium carbonate	Calcium carbonate	10 mg/m3	Not Available	Not Available	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Australia Exposure Standards	carbon black	Carbon black	3 mg/m3	Not Available	Not Available	Not Available

#### Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
calcium carbonate	45 mg/m3 210 mg/m3			1,300 mg/m3
carbon black	9 mg/m3	99 mg/m3		590 mg/m3
Ingredient	Original IDLH		Revised IDLH	
calcium carbonate	Not Available		Not Available	
carbon black	1,750 mg/m3		Not Available	
2-methyl-4-isothiazolin-3-one	Not Available		Not Available	
1,2-benzisothiazoline-3-one	Not Available		Not Available	

Occupational Exposure Banding			
Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
2-methyl-4-isothiazolin-3-one	D > 0.01 to ≤ 0.1 mg/m <sup>3</sup>		
1,2-benzisothiazoline-3-one	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.		

#### 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	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</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.</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>NOTE:</li> <li>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.</li> <li>Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.</li> </ul>
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> </ul>

## 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 Premixed Resaflex

Material

#### **Respiratory protection**

Type BKAX-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.

<b>Required Minimum</b>	Half-Face	Full-Face	Powered Air

BUTYL	С
BUTYL/NEOPRENE	С
CPE	С
HYPALON	С
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PE	С
PE/EVAL/PE	С
PVA	С
PVC	С
PVDC/PE/PVDC	С
SARANEX-23	С
TEFLON	С
VITON	С
VITON/NEOPRENE	С

\* 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.

Appearance Light grey paste with a very slight odour; mixes with water.

## **SECTION 9** Physical and chemical properties

## Information on basic physical and chemical properties

Protection Factor	Respirator	Respirator	Respirator
up to 10 x ES	BKAX-AUS P2	-	BKAX-PAPR-AUS / Class 1 P2
up to 50 x ES	-	BKAX-AUS / Class 1 P2	-
up to 100 x ES	-	BKAX-2 P2	BKAX-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

••			
Physical state	Non Slump Paste	Relative density (Water = 1)	1.2
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	8-9	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 Applicable	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)	Not Applicable
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (%)	Not Available
Vapour density (Air = 1)	Not Applicable	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

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Hazardous decomposition products

**SECTION 11 Toxicological information** 

See section 5

## Information on toxicological effects

Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal.		
Ingestion	Accidental ingestion of the material may be damaging to the	nealth of the individual.	
Skin Contact	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	If applied to the eyes, this material causes severe eye damage	е.	
Chronic	Long-term exposure to respiratory irritants may result in airwa Skin contact with the material is more likely to cause a sensit Substance accumulation, in the human body, may occur and Pure calcium carbonate does not cause the disease pneumo particulates can infect the lung and airway to cause inflamma High blood concentrations of calcium ion may give rise to dill fainting (syncope). Calcium ions enhance the effects of digita the absorption of tetracyclines. In newborns, giving calcium of	tion of blood vessels and depress heart function, leading to low blood pressure and is on the heart, and may precipitate digitalis poisoning. Calcium salts also reduce	
		showed a slightly increased risk of miscarriage and birth defects. Evaluation of of genetic toxicity.	
	Women exposed to xylene in the first 3 months of pregnancy workers chronically exposed to xylene has demonstrated lack	of genetic toxicity.	
Dunlop Premixed Resaflex	Women exposed to xylene in the first 3 months of pregnancy		
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calcium carbonate	Women exposed to xylene in the first 3 months of pregnancy workers chronically exposed to xylene has demonstrated lact         TOXICITY         Not Available         TOXICITY         dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation(Rat) LC50; >3 mg/l4h <sup>[1]</sup> Oral(Rat) LD50: >2000 mg/kg <sup>[1]</sup> dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Oral(Rat) LD50: >2000 mg/kg <sup>[1]</sup> Oral(Rat) LD50: >2000 mg/kg <sup>[1]</sup> Oral(Rat) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation(Rat) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation(Rat) LD50: >2000 mg/kg <sup>[1]</sup>	IRRITATION         IRRITATION         IRRITATION         Eye (rabbit): 0.75 mg/24h - SEVERE         Eye: no adverse effect observed (not irritating)[1]         Skin (rabbit): 500 mg/24h-moderate         Skin: no adverse effect observed (not irritating)[1]         IRRITATION         Eye: no adverse effect observed (not irritating)[1]         Skin: no adverse effect observed (not irritating)[1]         Skin: no adverse effect observed (not irritating)[1]         IRRITATION         IRRITATION         IRRITATION         IRRITATION         Eye: adverse effect observed (not irritating)[1]         IRRITATION         Eye: adverse effect observed (irreversible damage)[1]	
calcium carbonate	Women exposed to xylene in the first 3 months of pregnancy workers chronically exposed to xylene has demonstrated lack TOXICITY Not Available TOXICITY dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation(Rat) LC50; >3 mg/l4h <sup>[1]</sup> Oral(Rat) LD50; >2000 mg/kg <sup>[1]</sup> TOXICITY dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Oral(Rat) LD50: >2000 mg/kg <sup>[1]</sup> TOXICITY dermal (rat) LD50: 242 mg/kg <sup>[1]</sup> Inhalation(Rat) LC50; 0.1 mg/l4h <sup>[1]</sup> Oral(Rat) LD50; 120 mg/kg <sup>[1]</sup>	IRRITATION         IRRITATION         IRRITATION         Eye (rabbit): 0.75 mg/24h - SEVERE         Eye (rabbit): 0.75 mg/24h - SEVERE         Eye: no adverse effect observed (not irritating) <sup>[1]</sup> Skin (rabbit): 500 mg/24h-moderate         Skin: no adverse effect observed (not irritating) <sup>[1]</sup> IRRITATION         Eye: no adverse effect observed (not irritating) <sup>[1]</sup> Skin: adverse effect observed (irreversible damage) <sup>[1]</sup> Skin: adverse effect observed (corrosive) <sup>[1]</sup>	
calcium carbonate carbon black 2-methyl-4-isothiazolin-3-one	Women exposed to xylene in the first 3 months of pregnancy workers chronically exposed to xylene has demonstrated lack         TOXICITY         Not Available         TOXICITY         dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation(Rat) LC50; >3 mg/l4h <sup>[1]</sup> Oral(Rat) LD50: >2000 mg/kg <sup>[1]</sup> TOXICITY         dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Oral(Rat) LD50: >2000 mg/kg <sup>[1]</sup> Oral(Rat) LD50: >2000 mg/kg <sup>[1]</sup> TOXICITY         dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Oral(Rat) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation(Rat) LC50; 0.1 mg/l4h <sup>[1]</sup> Oral(Rat) LD50: 120 mg/kg <sup>[1]</sup> TOXICITY         dermal (rat) LD50: 120 mg/kg <sup>[1]</sup>	IRRITATION         IRRITATION         IRRITATION         Eye (rabbit): 0.75 mg/24h - SEVERE         Eye (rabbit): 0.75 mg/24h - SEVERE         Eye: no adverse effect observed (not irritating) <sup>[1]</sup> Skin (rabbit): 500 mg/24h-moderate         Skin: no adverse effect observed (not irritating) <sup>[1]</sup> IRRITATION         Eye: no adverse effect observed (not irritating) <sup>[1]</sup> Skin: adverse effect observed (not irritating) <sup>[1]</sup> Skin: adverse effect observed (not irritating) <sup>[1]</sup> Skin: adverse effect observed (corrosive) <sup>[1]</sup> Skin: adverse effect observed (corrosive) <sup>[1]</sup> IRRITATION         Eye: adverse effect observed (corrosive) <sup>[1]</sup> Skin: adverse effect observed (corrosive) <sup>[1]</sup> IRRITATION         IRRITATION         IRRITATION         IRRITATION <t< th=""></t<>	

CALCIUM CARBONATE	No evidence of carcinogenic properties. No evidence of mutagenic or teratogenic effects. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.
CARBON BLACK	Inhalation (rat) TCLo: 50 mg/m3/6h/90D-I Nil reported WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.
2-METHYL- 4-ISOTHIAZOLIN-3-ONE	Based on laboratory and animal testing, exposure to the material may result in irreversible effects and mutations in humans. The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. Formaldehyde generators (releasers) are often used as preservatives. The maximum authorised concentration of free formaldehyde is 0.2% and must be labelled with the warning sign "contains formaldehyde" where the concentration exceeds 0.05%. The use of formaldehyde- releasing preservatives ensures that the level of free formaldehyde in the products is always low but sufficient to inhibit microbial growth - it

	causing cancers (nitrosamines) when used in formu	lations containing amines. c in at least one assay, or belongs to a	naldehyde generators can produce amines capable of a family of chemicals producing damage or change to 20: 219-39, 1989
1,2-BENZISOTHIAZOLINE-3-ONE	The predominant fate of the thiazole ring is oxidative ring scission catalysed by cytochrome P450 (CYP) and formation of the corresponding alpha-dicarbonyl metabolites and thioamide derivatives. The well-established toxicity associated with thioamides and thioureas has led to the speculation that thiazole toxicity is attributed to ring scission yielding the corresponding thioamide metabolite. Ring opening has also been observed in benzothiazoles. For instance, benzothiazole itself is converted to S-methylmercaptoaniline. Acute toxicity data show that 1,2-benzisothiazoline-3-one (BIT) is moderately toxic by the oral and dermal routes but that this chemical is a severe eye irritant. Irritation to the skin from acute data show only mild skin irritation , but repeated dermal application indicated a more significant skin irritation response. The neurotoxicity observed in the rat acute oral toxicity study (piloerection and upward curvature of the spine at 300 mg/kg and above; decreased activity, prostration, decreased abdominal muscle tone, reduced righting reflex, and decreased rate and depth of breathing at 900 mg/kg) and the acute dermal toxicity study (upward curvature of the spine was observed in increased incidence, but this was absent after day 5 post-dose at a dose of 2000 mg/kg) were felt to be at exposures in excess of those expected from the use pattern of this pesticide and that such effects would not be observed at estimated exposure doses. <b>Subchronic oral toxicity</b> studies showed systemic effects after repeated oral administration including decreased body weight, increased incidence of forestomach hyperplasia, and non-glandular stomach lesions in rats. In dogs, the effects occurred at lower doses than in rats, and included alterations in blood chemistry (decreased plasma albumin, total protein, and alanine aminotransferase) and increased food consumption, and clinical toxicity signs (audible breathing, haircoat staining of the anogenital region, dry brown material around the nasal area) as well as i		
CALCIUM CARBONATE 8 2-METHYL 4-ISOTHIAZOLIN-3-ONE	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 criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.		
CARBON BLACK & 2-METHYL 4-ISOTHIAZOLIN-3-ONE 8	No significant acute toxicological data identified in literature search.		
1,2-BENZISOTHIAZOLINE-3-ONE			
	The following information refers to contact allergens Contact allergies quickly manifest themselves as co eczema involves a cell-mediated (T lymphocytes) in involve antibody-mediated immune reactions. The s distribution of the substance and the opportunities fe In light of potential adverse effects, and to ensure a has been established with the objective of ensuring required that risk assessment of biocidal products is	as a group and may not be specific t intact eczema, more rarely as urticaria immune reaction of the delayed type. O ignificance of the contact allergen is r or contact with it are equally importan harmonised risk assessment and ma a high level of protection of human ar a carried out before they can be place on instructions that defines the dosag to the biocidal substance.	a or Quincke's oedema. The pathogenesis of contact other allergic skin reactions, e.g. contact urticaria, not simply determined by its sensitisation potential: the magement, the EU regulatory framework for biocides ad animal health and the environment. To this aim, it is d on the market. A central element in the risk e, application method and amount of applications and domestic settings. Many biocidal products are
1,2-BENZISOTHIAZOLINE-3-ONE 2-METHYL- 4-ISOTHIAZOLIN-3-ONE 8	The following information refers to contact allergens Contact allergies quickly manifest themselves as co eczema involves a cell-mediated (T lymphocytes) in involve antibody-mediated immune reactions. The s distribution of the substance and the opportunities for In light of potential adverse effects, and to ensure a has been established with the objective of ensuring required that risk assessment of biocidal products is assessment of the biocidal products are the utilizatii thus the exposure of humans and the environment the Humans may be exposed to biocidal products in diffi- intended for industrial sectors or professional uses of	as a group and may not be specific t intact eczema, more rarely as urticaria immune reaction of the delayed type. O ignificance of the contact allergen is r or contact with it are equally importan harmonised risk assessment and ma a high level of protection of human ar a carried out before they can be place on instructions that defines the dosag to the biocidal substance.	a or Quincke's oedema. The pathogenesis of contact other allergic skin reactions, e.g. contact urticaria, not simply determined by its sensitisation potential: the magement, the EU regulatory framework for biocides ad animal health and the environment. To this aim, it is d on the market. A central element in the risk e, application method and amount of applications and domestic settings. Many biocidal products are
1,2-BENZISOTHIAZOLINE-3-ONE 2-METHYL 4-ISOTHIAZOLIN-3-ONE 1,2-BENZISOTHIAZOLINE-3-ONE	The following information refers to contact allergens Contact allergies quickly manifest themselves as co eczema involves a cell-mediated (T lymphocytes) in involve antibody-mediated immune reactions. The s distribution of the substance and the opportunities for In light of potential adverse effects, and to ensure a has been established with the objective of ensuring required that risk assessment of biocidal products is assessment of the biocidal products are the utilization thus the exposure of humans and the environment t Humans may be exposed to biocidal products in diffi- intended for industrial sectors or professional uses of non-professional users.	as a group and may not be specific t intact eczema, more rarely as urticaria immune reaction of the delayed type. O ignificance of the contact allergen is r or contact with it are equally importan harmonised risk assessment and ma a high level of protection of human ar is carried out before they can be place on instructions that defines the dosag to the biocidal substance. ferent ways in both occupational and ponly, whereas other biocidal products	tor Quincke's oedema. The pathogenesis of contact ther allergic skin reactions, e.g. contact urticaria, tot simply determined by its sensitisation potential: the magement, the EU regulatory framework for biocides and animal health and the environment. To this aim, it is d on the market. A central element in the risk e, application method and amount of applications and domestic settings. Many biocidal products are are commonly available for private use by
1,2-BENZISOTHIAZOLINE-3-ONE 2-METHYL- 4-ISOTHIAZOLIN-3-ONE 1,2-BENZISOTHIAZOLINE-3-ONE Acute Toxicity	The following information refers to contact allergens Contact allergies quickly manifest themselves as co eczema involves a cell-mediated (T lymphocytes) in involve antibody-mediated immune reactions. The s distribution of the substance and the opportunities for In light of potential adverse effects, and to ensure a has been established with the objective of ensuring required that risk assessment of biocidal products is assessment of the biocidal products are the utilization thus the exposure of humans and the environment thumans may be exposed to biocidal products in diffi intended for industrial sectors or professional uses of non-professional users.	as a group and may not be specific t intact eczema, more rarely as urticaria immune reaction of the delayed type. O ignificance of the contact allergen is r or contact with it are equally importan harmonised risk assessment and ma a high level of protection of human ar is carried out before they can be place on instructions that defines the dosag to the biocidal substance. Ferent ways in both occupational and i ponly, whereas other biocidal products <b>Carcinogenicity</b>	a or Quincke's oedema. The pathogenesis of contact ther allergic skin reactions, e.g. contact urticaria, tot simply determined by its sensitisation potential: the magement, the EU regulatory framework for biocides and animal health and the environment. To this aim, it is d on the market. A central element in the risk e, application method and amount of applications and domestic settings. Many biocidal products are are commonly available for private use by
1,2-BENZISOTHIAZOLINE-3-ONE 2-METHYL- 4-ISOTHIAZOLIN-3-ONE 1,2-BENZISOTHIAZOLINE-3-ONE Acute Toxicity Skin Irritation/Corrosion	The following information refers to contact allergens Contact allergies quickly manifest themselves as co eczema involves a cell-mediated (T lymphocytes) in involve antibody-mediated immune reactions. The s distribution of the substance and the opportunities for In light of potential adverse effects, and to ensure a has been established with the objective of ensuring required that risk assessment of biocidal products is assessment of the biocidal products are the utilizati thus the exposure of humans and the environment the Humans may be exposed to biocidal products in difficient intended for industrial sectors or professional uses of non-professional users.	as a group and may not be specific t intact eczema, more rarely as urticaria immune reaction of the delayed type. O ignificance of the contact allergen is r or contact with it are equally importan harmonised risk assessment and ma a high level of protection of human ar is carried out before they can be place on instructions that defines the dosag to the biocidal substance. ferent ways in both occupational and e only, whereas other biocidal products Carcinogenicity Reproductivity	a or Quincke's oedema. The pathogenesis of contact other allergic skin reactions, e.g. contact urticaria, not simply determined by its sensitisation potential: the magement, the EU regulatory framework for biocides id animal health and the environment. To this aim, it is d on the market. A central element in the risk e, application method and amount of applications and domestic settings. Many biocidal products are are commonly available for private use by

**SECTION 12 Ecological information** 

Toxicity Endpoint Test Duration (hr) Species Value Source **Dunlop Premixed Resaflex** Not Not Not Not Available Not Available Available Available Available Endpoint Test Duration (hr) Value Species Source NOEC(ECx) 6h Fish 4-320mg/l 4 calcium carbonate 72h EC50 Algae or other aquatic plants >14mg/l 2 LC50 96h Fish >165200mg/L 4 Endpoint Test Duration (hr) Species Value Source EC50 72h Algae or other aquatic plants >0.2mg/l 2 carbon black LC50 96h Fish >100mg/l 2

Legend:

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

	EC50	48h	Crustacea	33.076-41.968mg/l	4
	NOEC(ECx)	24h	Crustacea	3200mg/l	1
	Endpoint	Test Duration (hr)	Species	Value	Source
	Enapoint	lest Duration (III)	Species	value	Source
	LC50	96h	Fish	0.081-0.122mg/L	4
2-methyl-4-isothiazolin-3-one	EC50	48h	Crustacea	0.189-0.257mg/L	4
	NOEC(ECx)	96h	Algae or other aquatic plants	0.01mg/l	2
	EC50	96h	Algae or other aquatic plants	0.063mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96h	Fish	0.067-0.29mg/L	4
1,2-benzisothiazoline-3-one	EC50	48h	Crustacea	0.097mg/L	4
	EC50(ECx)	48h	Crustacea	0.097mg/L	4
Legend:	V3.12 (QSAR) -	, , ,	tered Substances - Ecotoxicological Information Ecotox database - Aquatic Toxicity Data 5. ECE - 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**

Waste treatment methods		
Product / Packaging disposal	<ul> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <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>	

## **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
calcium carbonate	Not Available
carbon black	Not Available
2-methyl-4-isothiazolin-3-one	Not Available
1,2-benzisothiazoline-3-one	Not Available

## Transport in bulk in accordance with the ICG Code

Product name	Ship Type
calcium carbonate	Not Available

## Page **9** of **10**

## **Dunlop Premixed Resaflex**

Product name	Ship Type	
carbon black	Not Available	
2-methyl-4-isothiazolin-3-one	Not Available	
1,2-benzisothiazoline-3-one	Not Available	
SECTION 15 Regulatory in	formation	
Safety, health and environme	ntal regulations / legislation specific for the su	ubstance or mixture
calcium carbonate is found on	the following regulatory lists	
Australian Inventory of Industrial	Chemicals (AIIC)	
carbon black is found on the fo	llowing regulatory lists	
Australia Hazardous Chemical In	formation System (HCIS) - Hazardous Chemicals	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC
Australian Inventory of Industrial	Chemicals (AIIC)	Monographs
Chemical Footprint Project - Chemicals of High Concern List		International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans
		International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)
2-methyl-4-isothiazolin-3-one is	s found on the following regulatory lists	
Australia Hazardous Chemical In	formation System (HCIS) - Hazardous Chemicals	Australian Inventory of Industrial Chemicals (AIIC)
Australia Standard for the Uniform Schedule 6	n Scheduling of Medicines and Poisons (SUSMP) -	
1,2-benzisothiazoline-3-one is	ound on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals		Australian Inventory of Industrial Chemicals (AIIC)
National Inventory Status		
National Inventory	Status	

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

## **SECTION 16 Other information**

Revision Date	04/02/2021
Initial Date	04/02/2021

## SDS Version Summary

Version	Date of Update	Sections Updated	
2.1.1.1	04/02/2021	Classification, Ingredients	
2.1.2.1	26/04/2021	Regulation Change	
2.1.3.1	03/05/2021	Regulation Change	
2.1.4.1	06/05/2021	Regulation Change	
2.1.5.1	10/05/2021	Regulation Change	
2.1.5.2	30/05/2021	Template Change	
2.1.5.3	04/06/2021	Template Change	
2.1.5.4	05/06/2021	Template Change	
2.1.6.4	07/06/2021	Regulation Change	
2.1.6.5	09/06/2021	Template Change	
2.1.6.6	11/06/2021	Template Change	
2.1.6.7	15/06/2021	Template Change	

Date of Update	Sections Updated
17/06/2021	Regulation Change
21/06/2021	Regulation Change
05/07/2021	Template Change
14/07/2021	Regulation Change
19/07/2021	Regulation Change
	17/06/2021 21/06/2021 05/07/2021 14/07/2021

#### Other information

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

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