

# Ardex RA 030 Plus

Ardex (Ardex NZ)

Chemwatch: **5333-03** Version No: **4.1.1.1** 

Safety Data Sheet according to HSNO Regulations

Chemwatch Hazard Alert Code: 3

Issue Date: 01/11/2019 Print Date: 15/07/2020 S.GHS.NZL.EN

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

#### **Product Identifier**

Product name	Ardex RA 030 Plus
Synonyms	Not Available
Other means of identification	Not Available
Other means of identification	Not Available

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

Relevant identified uses Joint sealant.

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

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

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	1		0 = Minimum
Body Contact	3		1 = Low 2 = Moderate
Reactivity	1		3 = High
Chronic	2		4 = Extreme

Classification <sup>[1]</sup>	Skin Corrosion/Irritation Category 3, Eye Irritation Category 2, Germ cell mutagenicity Category 2, Reproductive Toxicity Category 2, Chronic Aquatic Hazard Category 3	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	
Determined by Chemwatch using GHS/HSNO criteria	6.3B, 6.4A, 6.6B, 6.8B, 9.1C	

## Label elements

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## Hazard pictogram(s)





SIGNAL WORD	WARI

## Hazard statement(s)

H316	Causes mild skin irritation.	
H319	Causes serious eye irritation.	
H341	Suspected of causing genetic defects.	
H361	Suspected of damaging fertility or the unborn child.	
H412	Harmful to aquatic life with long lasting effects.	

### Precautionary statement(s) Prevention

P201	Obtain special instructions before use.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P273	Avoid release to the environment.	

## Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	
P337+P313	If eye irritation persists: Get medical advice/attention.	

### Precautionary statement(s) Storage

P405 Store locked up.

### 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
1317-65-3	30-55	calcium carbonate
471-34-1	15-25	C.I. Pigment White 18
53306-54-0	5-15	bis(2-propylheptyl)phthalate
1760-24-3	0.5-2	N-[3-(trimethoxysilyl)propyl]ethylenediamine
13463-67-7	0.1-1	titanium dioxide
1333-86-4	0.01-0.09	carbon black
818-08-6	NotSpec	<u>dibutyltin oxide</u>
28553-12-0	NotSpec	diisononyl phthalate

## **SECTION 4 FIRST AID MEASURES**

#### D

Description of first aid measure	es
Eye Contact	If this product comes in contact with the eyes:  Immediately hold eyelids apart and flush the eye continuously with running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.  Transport to hospital or doctor without delay.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.
Inhalation	<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>

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► Transport to hospital, or doctor, without delay. ► If swallowed do **NOT** induce vomiting F If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. ▶ Observe the patient carefully. Ingestion ▶ Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. ▶ Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

#### Indication of any immediate medical attention and special treatment needed

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	▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result		
Advice for firefighters			
Fire Fighting	Alert Fire Brigade and tell them location and nature of hazard.     Wear breathing apparatus plus protective gloves 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.		
Fire/Explosion Hazard	▶ Non combustible. ▶ Not considered a significant fire risk, however containers may burn. Decomposes on heating and produces: carbon dioxide (CO2) 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	<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 ▶ Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Safe handling Use in a well-ventilated area. Prevent concentration in hollows and sumps. Store in original containers. Keep containers securely sealed. Other information Store in a cool, dry, well-ventilated area.

Store away from incompatible materials and foodstuff containers.

# Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	<ul> <li>Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.</li> <li>Avoid reaction with oxidising agents</li> </ul>

# **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

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#### **Control parameters**

### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	calcium carbonate	Calcium carbonate	10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	calcium carbonate	Marble (Calcium carbonate)	10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	calcium carbonate	Limestone (Calcium carbonate)	10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	C.I. Pigment White 18	Marble (Calcium carbonate)	10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	C.I. Pigment White 18	Calcium carbonate	10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	titanium dioxide	Titanium dioxide	10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	carbon black	Carbon black	3 mg/m3	Not Available	Not Available	6.7B-Suspected carcinogen
New Zealand Workplace Exposure Standards (WES)	dibutyltin oxide	Tin metal: Organic compounds, as Sn	0.1 mg/m3	0.2 mg/m3	Not Available	skin-Skin absorption
New Zealand Workplace Exposure Standards (WES)	diisononyl phthalate	Diisononyl phthalate	5 mg/m3	Not Available	Not Available	Not Available

#### **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
calcium carbonate	Carbonic acid, calcium salt	45 mg/m3	210 mg/m3	1,300 mg/m3
C.I. Pigment White 18	Carbonic acid, calcium salt	45 mg/m3	210 mg/m3	1,300 mg/m3
N-[3-(trimethoxysilyl)propyl]ethylenediamine	Trimethoxysilylpropyl) ethylenediamine, N-(3-	23 mg/m3	250 mg/m3	1,500 mg/m3
titanium dioxide	Titanium oxide; (Titanium dioxide)	30 mg/m3	330 mg/m3	2,000 mg/m3
carbon black	Carbon black	9 mg/m3	99 mg/m3	590 mg/m3

Ingredient	Original IDLH	Revised IDLH
calcium carbonate	Not Available	Not Available
C.I. Pigment White 18	Not Available	Not Available
bis(2-propylheptyl)phthalate	Not Available	Not Available
N-[3-(trimethoxysilyl)propyl]ethylenediamine	Not Available	Not Available
titanium dioxide	5,000 mg/m3	Not Available
carbon black	1,750 mg/m3	Not Available
dibutyltin oxide	25 mg/m3	Not Available
diisononyl phthalate	Not Available	Not Available

## OCCUPATIONAL EXPOSURE BANDING

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
N-[3-(trimethoxysilyl)propyl]ethylenediamine	D > 0.1 to ≤ 1 ppm	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (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



NOTE:







# 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

The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective

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	equipment, to avoid all possible skin contact.  Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.
Body protection	See Other protection below
Other protection	Protective overalls, closely fitted at neck and wrist. Eye-wash unit. IN CONFINED SPACES: Non-sparking protective boots Static-free clothing. Ensure availability of lifeline.

#### Respiratory protection

Type A-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	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

<sup>^ -</sup> 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)

### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

#### Information on basic physical and chemical properties

Appearance	Appearance Coloured pasty liquid with mild characteristic odour; slightly mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	1.3-1.7
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Applicable	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	>93	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)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Partly miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	20.4

## **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**

#### 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.
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual.

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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.
Chronic	Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. Inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Ample evidence from experiments exists that there is a suspicion this material directly reduces fertility. Based on experience with animal studies, exposure to the material may result in toxic effects to the development of the foetus, at levels which do not cause significant toxic effects to the mother. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment.

	TOXICITY	IRRITATION
Ardex RA 030 Plus	Not Available	Not Available
	. Tot. / Trailed to	,
	TOXICITY	IRRITATION
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit): 0.75 mg/24h - SEVERE
calcium carbonate	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>	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>
	TOXICITY	IRRITATION
C.I. Pigment White 18	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>	Eye (rabbit): non-irritant *
bis(2-propylheptyl)phthalate	Inhalation (rat) LC50: >20.5 mg/l/h**[2]	Skin (rabbit): non-irritant *
	Oral (rat) LD50: >2000 mg/kg <sup>[2]</sup>	
	TOXICITY	IRRITATION
	dermal (rat) LD50: >2009 mg/kg <sup>[1]</sup>	Eye (rabbit): 15 mg SEVERE
-[3-(trimethoxysilyl)propyl]ethylenediamine	Oral (rat) LD50: 1897 mg/kg <sup>[1]</sup>	Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>
		Skin (rabbit): 500 mg mild
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	TOXICITY	IRRITATION
	dermal (hamster) LD50: >=10000 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
titanium dioxide	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Skin (human): 0.3 mg /3D (int)-mild *
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	TOXICITY	IRRITATION
carbon black	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
	Oral (rat) LD50: >15400 mg/kg <sup>[2]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	TOXICITY	IRRITATION
dibutyltin oxide	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit): 100 mg/24h -moderate
	Oral (rat) LD50: 44.9 mg/kg <sup>[2]</sup>	Skin (rabbit): 500 mg/24h - mild
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: >3160 mg/kg <sup>[2]</sup>	Not Available
diisononyl phthalate	Inhalation (rat) LC50: >0.1005 mg/l/6H <sup>[2]</sup>	
	Oral (rat) LD50: =2550 mg/kg <sup>[2]</sup>	

Legend:

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

CALCIUM CARBONATE

No evidence of carcinogenic properties. No evidence of mutagenic or teratogenic effects.

BIS(2-PROPYLHEPTYL)PHTHALATE

for bis(2-propylheptyl)phthalate A substance thought to be comparable to bis(2-propylheptyl)phthalate is diisodecyl phthalate (syn: DIDP) Acute toxicity: Bis(2-propylheptyl)phthalate is of low acute oral, dermal and inhalation toxicity and is slightly irritating Version No: 4.1.1.1 Ardex RA 030 Plus

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to eves and skin. The result of the non-adjuvant skin sensitisation test provided for assessment was negative and additional information available in the EU report for DIDP indicates that the material has low sensitising potential. Repeat dose toxicity: Based on repeated dose studies using DIDP, the more complex analogue of the substance, the target organ in subacute and subchronic studies in rats is the liver, the effects observed being increased liver weight and changes in liver peroxisome proliferator enzyme activities. As the NOAELs derived are due to the latter, which is considered to be species-specific and of little relevance to humans, the NOAEL of 15 mg/kg/day from a 90-day dog study was used in the EU risk assessment. However, this study was considered to be of poor reliability. \* Orica Chemicals MSDS \*\* NICNAS Public Report 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 immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. Allergic reactions involving the respiratory tract are usually due to interactions between IgE antibodies and allergens and occur rapidly. Allergic potential of the allergen and period of exposure often determine the severity of symptoms. Some people may be genetically more prone than others, and exposure to other irritants may aggravate symptoms. Allergy causing activity is due to interactions with proteins N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENEDIAMINE Attention should be paid to atopic diathesis, characterised by increased susceptibility to nasal inflammation, asthma and eczema Exogenous allergic alveolitis is induced essentially by allergen specific immune-complexes of the IgG type; cell-mediated reactions (T lymphocytes) may be involved. Such allergy is of the delayed type with onset up to four hours following exposure. For N-[3-(trimethoxysilyl)propyl]-ethylenediamine (AEAPTMS) and its analogues: Animal testing shows that AEAPTMS is moderately irritating to (and can sensitise) the skin and severely irritating to the eyes. It also causes salivation and laboured breathing. There is no evidence that AEAPTMS causes genetic damage or reproductive or developmental toxicity to date. \* IUCLID Laboratory (in vitro) and animal studies show, exposure to the material may result in a possible risk of irreversible effects, with the possibility of producing mutation. Exposure to titanium dioxide is via inhalation, swallowing or skin contact. When inhaled, it may deposit in lung tissue and lymph nodes causing dysfunction of the lungs and immune system. Absorption by the stomach and intestines TITANIUM DIOXIDE depends on the size of the particle. It penetrated only the outermost layer of the skin, suggesting that healthy skin may be an effective barrier. There is no substantive data on genetic damage, though cases have been reported in experimental animals. The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis **CARBON BLACK** Inhalation (rat) TCLo: 50 mg/m3/6h/90D-I Nil reported DIBUTYLTIN OXIDE Flaccid paralysis, general anaesthesia and somnolence recorded. [Huls] The effects of DINP on fertility-related parameters such as reduced testosterone content and production and altered reproductive organ weights (with or without histopathologies) have been demonstrated in rats. Although quantitatively being less potent, DINP has exhibited adverse effects on the male reproductive system and sexual differentiation during development in a number of rodent studies (e.g. increased nipple retention, testicular pathology and decreased AGD/AGI in male offspring), which are components of the antiandrogenic pattern observed with diethylhexyl phthalate (DEHP) (a known reproductive toxicant). Foetal expression of genes involved in androgen synthesis such as StAR and Cyp11a were also reduced. There was also a report of increased gene expression levels of Insl3 (a foetal Leydig cell product critical for testis descent) that may infer the impaired testicular steroidogenesis following exposure to DINP at high doses (e.g. = 750 mg/kg bw/d). Considering the chemical composition of DINP, which is represented as mixed phthalates with side-chains made up of 5-10% methylethylhexyl, limited evidence of the toxicological properties of transitional phthalates may be expected at high doses of DINP tested The reduced pup DIISONONYL PHTHALATE weight was observed at approximately 100 mg/kg bw/d in both sexes, both in one- and two-generation reproductive studies in rats, in the absence of overt maternal toxicity. The pup weight reduction was also sustained and not considered solely related to low birth weight. In a post-natal toxicity study, reduced pup weight was also reduced at = 250 mg/kg bw/d. Therefore, this adverse effect of DINP is assessed as the most sensitive endpoint on offspring development. Overall, the available human data do not provide sufficient evidence for a causal relationship between exposure to DINP and adverse health effects in humans. There is also insufficient information to examine the mode of action of DINP on male reproductive tract development and sexual function in comparison with transitional phthalates. However, elements of the plausible mode of action for DINP effects on the male reproductive system, offspring growth and sexual differentiation are considered likely to be parallel in rats and humans if the exposure to DINP is high and within a critical window of development. Therefore, the effects observed in animal studies are regarded as relevant to a 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 CALCIUM CARBONATE & C.I. PIGMENT WHITE 18 & disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENEDIAMINE documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung & TITANIUM DIOXIDE & DIBUTYLTIN OXIDE 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. **CALCIUM CARBONATE & C.I. PIGMENT WHITE 18 &** The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENEDIAMINE exposure to irritants may produce conjunctivitis. & DIBUTYLTIN OXIDE High Molecular Weight Phthalate Esters (HMWPEs) Category The HMWPE group includes chemically similar substances produced from alcohols. These substances have been BIS(2-PROPYLHEPTYL)PHTHALATE & DIISONONYL demonstrated to have few biological effects. They demonstrate minimal acute toxicity, with effect on the liver and PHTHAL ATE kidney at high doses. They also cause reproductive and developmental toxicity, also, liver cancer.

The material may produce peroxisome proliferation. Peroxisomes are single, membrane limited organelles in the

WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.

cytoplasm that are found in the cells of animals, plants, fungi, and protozoa No significant acute toxicological data identified in literature search.

**TITANIUM DIOXIDE & CARBON BLACK** 

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Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	✓	Reproductivity	✓
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	✓	Aspiration Hazard	×

Legend:

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

## **SECTION 12 ECOLOGICAL INFORMATION**

## Toxicity

Oxicity					
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
Ardex RA 030 Plus	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	>56000mg/L	4
calcium carbonate	EC50	72	Algae or other aquatic plants	>14mg/L	2
	EC10	72	Algae or other aquatic plants	>14mg/L	2
	NOEC	72	Algae or other aquatic plants	14mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	>56000mg/L	4
C.I. Pigment White 18	EC50	72	Algae or other aquatic plants	>14mg/L	2
Č	EC10	72	Algae or other aquatic plants	>14mg/L	2
	NOEC	72	Algae or other aquatic plants	14mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	0.002mg/L	3
	EC50	48	Crustacea	>100mg/L	2
bis(2-propylheptyl)phthalate	EC50	96	Algae or other aquatic plants	0.000247mg/L	3
	EC0	48	Crustacea	50mg/L	2
	NOEC	504	Crustacea	>1mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	597mg/L	2
N-[3-(trimethoxysilyl)propyl]ethylenediamine	EC50	48	Crustacea	81mg/L	2
v-[5-(timethoxyshy))propyljetnylenediamme	EC50	96	Algae or other aquatic plants	<1.000mg/L	3
	NOEC	72	Algae or other aquatic plants	1.6mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	>1-mg/L	2
titanium dioxide	EC50	48	Crustacea	>1-mg/L	2
mamam dioxide	EC50	72	Algae or other aquatic plants	5.83mg/L	4
	NOEC	336	Fish	0.089mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	>100mg/L	2
	EC50	48	Crustacea	>100mg/L	2
carbon black	EC50	72	Algae or other aquatic plants	>10-mg/L	2
	EC10	72	Algae or other aquatic plants	>10-mg/L	2
	NOEC	96	Fish	>=1-mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	0.137mg/L	3
	EC50	48	Crustacea	2mg/L	2
dibutyltin oxide	EC50	96	Algae or other aquatic plants	0.140mg/L	3
	EC03	168	Algae or other aquatic plants  Algae or other aquatic plants	=0.17mg/L	. 4
	_003	100	Aigue or outer aquatic piants		, 7

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#### Ardex RA 030 Plus

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diisononyl phthalate

ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
LC50	96	Fish	>0.1mg/L	2
EC50	48	Crustacea	>0.06mg/L	2
EC50	96	Algae or other aquatic plants	>2.8mg/L	1
NOEC	504	Crustacea	0.004mg/L	2

Legend:

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

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

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
bis(2-propylheptyl)phthalate	LOW	LOW
N-[3-(trimethoxysilyl)propyl]ethylenediamine	HIGH	HIGH
titanium dioxide	HIGH	HIGH
dibutyltin oxide	HIGH	HIGH
diisononyl phthalate	HIGH	HIGH

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
bis(2-propylheptyl)phthalate	LOW (LogKOW = 10.3562)
N-[3-(trimethoxysilyl)propyl]ethylenediamine	LOW (LogKOW = -1.6744)
titanium dioxide	LOW (BCF = 10)
dibutyltin oxide	LOW (BCF = 69)
diisononyl phthalate	LOW (BCF = 183.8)

#### Mobility in soil

Ingredient	Mobility
bis(2-propylheptyl)phthalate	LOW (KOC = 1914000)
N-[3-(trimethoxysilyl)propyl]ethylenediamine	LOW (KOC = 6856)
titanium dioxide	LOW (KOC = 23.74)
dibutyltin oxide	LOW (KOC = 1514)
diisononyl phthalate	LOW (KOC = 467200)

# **SECTION 13 DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

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 or consult manufacturer for recycling options.
- ► Consult State Land Waste Authority for disposal.
- ▶ Bury or incinerate residue at an approved site.
- Recycle containers if possible, or dispose of in an authorised landfill.

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

## **Disposal Requirements**

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

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous.

## **SECTION 14 TRANSPORT INFORMATION**

## **Labels Required**

Marine Pollutant	NO
HAZCHEM	Not Applicable

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

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

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#### 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

#### **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

HSR002824         N.O.S. (Subsidiary Hazard) Group Standard 2017           HSR002535         Gas Under Pressure Mixtures (Subsidiary Hazard) Group Standard 2017           HSR002530         Cleaning Products (Subsidiary Hazard) Group Standard 2017           HSR002530         Cleaning Products (Subsidiary Hazard) Group Standard 2017           HSR002531         Acrosols (Subsidiary Hazard) Group Standard 2017           HSR002519         Acrosols (Subsidiary Hazard) Group Standard 2017           HSR002521         Animal Nutritional and Animal Care Products Group Standard 2017           HSR002660         Lubricants, Lubricant Additives, Coolants and Anii-freeze Agents (Subsidiary Hazard) Group Standard 2017           HSR002671         Reagent Kits Group Standard 2017           HSR002684         Polymers (Subsidiary Hazard) Group Standard 2017           HSR002670         Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017           HSR002680         Embalming Products (Subsidiary Hazard) Group Standard 2017           HSR002681         Photographic Chemicals (Subsidiary Hazard) Group Standard 2017           HSR002682         Embalming Products (Subsidiary Hazard) Group Standard 2017           HSR002683         Denial Products (Subsidiary Hazard) Group Standard 2017           HSR002684         Perimaceutical Active Ingredients Group Standard 2017           HSR002685         Leather and Textile Products (Subsidiary Haza	HSR Number	Group Standard
HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2017 HSR002530 Cleaning Products (Subsidiary Hazard) Group Standard 2017 HSR002519 Aerosols (Subsidiary Hazard) Group Standard 2017 HSR002519 Aerosols (Subsidiary Hazard) Group Standard 2017 HSR002510 Animal Nutritional and Animal Care Products Group Standard 2017 HSR002506 Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents (Subsidiary Hazard) Group Standard 2017 HSR002644 Polymers (Subsidiary Hazard) Group Standard 2017 HSR002647 Reagent Kits Group Standard 2017 HSR002670 Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017 HSR002683 Photographic Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002655 Embalming Products (Subsidiary Hazard) Group Standard 2017 HSR002578 Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2017 HSR002584 Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002573 Fire Fighting Chemicals Group Standard 2017 HSR002573 Fire Fighting Chemicals Group Standard 2017 HSR002500 Leather and Textile Products (Subsidiary Hazard) Group Standard 2017 HSR002561 Ferilisers (Subsidiary Hazard) Group Standard 2017 HSR002562 Pharmaceutical Active Ingredients Group Standard 2017 HSR002563 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002564 Refining Catalysts Group Standard 2017 HSR002565 Pharmaceutical Active Ingredients Group Standard 2017 HSR002564 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002565 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002564 Veterinary Medicines (Non-dispersive Cosed System Application) Group Standard 2017 HSR100759 Veterinary Medicines (Non-dispersive Cosed System Application) Group Standard 2017 HSR002503 Additives, Pr	HSR002624	N.O.S. (Subsidiary Hazard) Group Standard 2017
HSR002530 Cleaning Products (Subsidiary Hazard) Group Standard 2017 HSR002585 Fuel Additives (Subsidiary Hazard) Group Standard 2017 HSR002591 Aerosols (Subsidiary Hazard) Group Standard 2017 HSR002521 Animal Nutritional and Animal Care Products Group Standard 2017 HSR002606 Lubricants, Lubricant Additives, Coolants and Anii-freeze Agents (Subsidiary Hazard) Group Standard 2017 HSR002644 Polymers (Subsidiary Hazard) Group Standard 2017 HSR002647 Reagent Kits Group Standard 2017 HSR002668 Photographic Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002670 Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017 HSR002688 Photographic Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002565 Embalming Products (Subsidiary Hazard) Group Standard 2017 HSR002578 Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2017 HSR002589 Dental Products (Subsidiary Hazard) Group Standard 2017 HSR002589 Dental Products (Subsidiary Hazard) Group Standard 2017 HSR002570 Fire Fighting Chemicals Group Standard 2017 HSR002571 Fire Fighting Chemicals Group Standard 2017 HSR002571 Fire Fighting Chemicals Group Standard 2017 HSR002571 Ferlilisers (Subsidiary Hazard) Group Standard 2017 HSR002589 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002580 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002580 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002580 Corresion Inhibitors (Subsidiary Hazard) Group Standard 2017 HSR002580 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 HSR100759 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 HSR002580 Metal Industry Products (Subsidiary Hazard) Group Standard 2017 HSR100759 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017	HSR002535	Gas Under Pressure Mixtures (Subsidiary Hazard) Group Standard 2017
HSR002585 Fuel Additives (Subsidiary Hazard) Group Standard 2017 HSR002519 Aerosols (Subsidiary Hazard) Group Standard 2017 HSR002521 Animal Nutritional and Animal Care Products Group Standard 2017 HSR002606 Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents (Subsidiary Hazard) Group Standard 2017 HSR002644 Polymers (Subsidiary Hazard) Group Standard 2017 HSR002647 Reagent Kits Group Standard 2017 HSR002667 Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017 HSR002658 Photographic Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002656 Embalming Products (Subsidiary Hazard) Group Standard 2017 HSR002578 Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2017 HSR002588 Dental Products (Subsidiary Hazard) Group Standard 2017 HSR002589 Pharmaceutical Active Ingredients Group Standard 2017 HSR002573 Fire Fighting Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002573 Fire Fighting Chemicals Group Standard 2017 HSR002574 Pharmaceutical Active Ingredients Group Standard 2017 HSR002575 Pharmaceutical Active Ingredients Group Standard 2017 HSR002576 Pharmaceutical Active Ingredients Group Standard 2017 HSR002571 Fertilisers (Subsidiary Hazard) Group Standard 2017 HSR002571 Fertilisers (Subsidiary Hazard) Group Standard 2017 HSR002574 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002575 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002576 Consision Inhibitors (Subsidiary Hazard) Group Standard 2017 HSR002576 Consision Inhibitors (Subsidiary Hazard) Group Standard 2017 HSR002577 Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017 HSR002579 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017 HSR002579 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017 HSR002579 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017	HSR002596	Laboratory Chemicals and Reagent Kits Group Standard 2017
HSR002519 Aerosols (Subsidiary Hazard) Group Standard 2017 HSR002521 Animal Nutritional and Animal Care Products Group Standard 2017 HSR002606 Lubricants, Lubricant Additives, Coolants and Anii-freeze Agents (Subsidiary Hazard) Group Standard 2017 HSR002644 Polymers (Subsidiary Hazard) Group Standard 2017 HSR002647 Reagent Kits Group Standard 2017 HSR002650 Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017 HSR002658 Photographic Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002658 Embalming Products (Subsidiary Hazard) Group Standard 2017 HSR002578 Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2017 HSR002584 Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002558 Dental Products (Subsidiary Hazard) Group Standard 2017 HSR002564 Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002573 Fire Fighting Chemicals Group Standard 2017 HSR002560 Leather and Textile Products (Subsidiary Hazard) Group Standard 2017 HSR002571 Fire Fighting Chemicals Group Standard 2017 HSR002571 Fertilisers (Subsidiary Hazard) Group Standard 2017 HSR002564 Refiring Catalysts Group Standard 2017 HSR002564 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002565 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002564 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002564 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002565 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002566 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002569 Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017 HSR100756 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 HSR100759 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017 HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002530	Cleaning Products (Subsidiary Hazard) Group Standard 2017
HSR002521 Animal Nutritional and Animal Care Products Group Standard 2017 HSR002606 Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents (Subsidiary Hazard) Group Standard 2017 HSR002644 Polymers (Subsidiary Hazard) Group Standard 2017 HSR002647 Reagent Kits Group Standard 2017 HSR002670 Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017 HSR002638 Photographic Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002565 Embalming Products (Subsidiary Hazard) Group Standard 2017 HSR002578 Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2017 HSR002584 Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002573 Fire Fighting Chemicals Group Standard 2017 HSR002573 Fire Fighting Chemicals Group Standard 2017 HSR002560 Leather and Textile Products (Subsidiary Hazard) Group Standard 2017 HSR002600 Leather and Textile Products (Subsidiary Hazard) Group Standard 2017 HSR002601 Fertilisers (Subsidiary Hazard) Group Standard 2017 HSR002648 Refining Catalysts Group Standard 2017 HSR002649 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002640 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002640 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017 HSR002640 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002640 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002640 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002640 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 HSR100759 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017 HSR002630 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002585	Fuel Additives (Subsidiary Hazard) Group Standard 2017
HSR002606 Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents (Subsidiary Hazard) Group Standard 2017 HSR002644 Polymers (Subsidiary Hazard) Group Standard 2017 HSR002670 Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017 HSR0026838 Photographic Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002565 Embalming Products (Subsidiary Hazard) Group Standard 2017 HSR002578 Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2017 HSR002584 Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002573 Fire Fighting Chemicals Group Standard 2017 HSR002573 Fire Fighting Chemicals Group Standard 2017 HSR002574 Pharmaceutical Active Ingredients Group Standard 2017 HSR002575 Pharmaceutical Active Ingredients Group Standard 2017 HSR002571 Fertilisers (Subsidiary Hazard) Group Standard 2017 HSR002571 Fertilisers (Subsidiary Hazard) Group Standard 2017 HSR002600 Leather and Textile Products (Subsidiary Hazard) Group Standard 2017 HSR002653 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002654 Refining Catalysts Group Standard 2017 HSR002544 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002549 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017 HSR002575 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 HSR100758 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017 HSR002650 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002519	Aerosols (Subsidiary Hazard) Group Standard 2017
HSR002644 Polymers (Subsidiary Hazard) Group Standard 2017 HSR002670 Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017 HSR002683 Photographic Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002666 Emballming Products (Subsidiary Hazard) Group Standard 2017 HSR002578 Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2017 HSR002578 Dental Products (Subsidiary Hazard) Group Standard 2017 HSR00258 Dental Products (Subsidiary Hazard) Group Standard 2017 HSR00258 Dental Products (Subsidiary Hazard) Group Standard 2017 HSR002573 Fire Fighting Chemicals Group Standard 2017 HSR002573 Fire Fighting Chemicals Group Standard 2017 HSR002574 Pharmaceutical Active Ingredients Group Standard 2017 HSR002575 Pharmaceutical Active Ingredients Group Standard 2017 HSR002571 Ferilisers (Subsidiary Hazard) Group Standard 2017 HSR002584 Refining Catalysts Group Standard 2017 HSR002584 Refining Catalysts Group Standard 2017 HSR002584 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002584 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002584 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017 HSR002584 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017 HSR002584 Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017 HSR00757 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017 HSR00759 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017 HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017 HSR002630 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002521	Animal Nutritional and Animal Care Products Group Standard 2017
HSR002647 Reagent Kits Group Standard 2017 HSR002638 Photographic Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002656 Embalming Products (Subsidiary Hazard) Group Standard 2017 HSR002578 Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2017 HSR00258 Dental Products (Subsidiary Hazard) Group Standard 2017 HSR00258 Dental Products (Subsidiary Hazard) Group Standard 2017 HSR002684 Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002673 Fire Fighting Chemicals Group Standard 2017 HSR002673 Fire Fighting Chemicals Group Standard 2017 HSR002600 Leather and Textile Products (Subsidiary Hazard) Group Standard 2017 HSR002600 Leather and Textile Products (Subsidiary Hazard) Group Standard 2017 HSR002614 Feffilisers (Subsidiary Hazard) Group Standard 2017 HSR002653 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002648 Refining Catalysts Group Standard 2017 HSR002649 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002649 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002649 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017 HSR00767 Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017 HSR00768 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 HSR00769 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017 HSR00769 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017 HSR00769 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017 HSR00769 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017 HSR00769 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017	HSR002606	Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents (Subsidiary Hazard) Group Standard 2017
HSR002670 Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017 HSR002668 Photographic Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002566 Embalming Products (Subsidiary Hazard) Group Standard 2017 HSR002578 Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2017 HSR00258 Dental Products (Subsidiary Hazard) Group Standard 2017 HSR002684 Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002673 Fire Fighting Chemicals Group Standard 2017 HSR002673 Fire Fighting Chemicals Group Standard 2017 HSR002600 Leather and Textile Products (Subsidiary Hazard) Group Standard 2017 HSR002601 Fertilisers (Subsidiary Hazard) Group Standard 2017 HSR00261 Fertilisers (Subsidiary Hazard) Group Standard 2017 HSR002663 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002644 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002649 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017 HSR002649 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017 HSR002649 Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017 HSR100768 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017 HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017 HSR002603 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002644	Polymers (Subsidiary Hazard) Group Standard 2017
HSR002638 Photographic Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002565 Embalming Products (Subsidiary Hazard) Group Standard 2017 HSR002578 Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2017 HSR00258 Dental Products (Subsidiary Hazard) Group Standard 2017 HSR002684 Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002573 Fire Fighting Chemicals Group Standard 2017 HSR002573 Pharmaceutical Active Ingredients Group Standard 2017 HSR002600 Leather and Textile Products (Subsidiary Hazard) Group Standard 2017 HSR002571 Fertilisers (Subsidiary Hazard) Group Standard 2017 HSR002648 Refining Catalysts Group Standard 2017 HSR002653 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002544 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002549 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017 HSR00757 Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017 HSR100758 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017 HSR100759 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017 HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017 HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002647	Reagent Kits Group Standard 2017
HSR002565 Embalming Products (Subsidiary Hazard) Group Standard 2017 HSR002578 Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2017 HSR002558 Dental Products (Subsidiary Hazard) Group Standard 2017 HSR002684 Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002573 Fire Fighting Chemicals Group Standard 2017 HSR002573 Pharmaceutical Active Ingredients Group Standard 2017 HSR002600 Leather and Textile Products (Subsidiary Hazard) Group Standard 2017 HSR002571 Fertilisers (Subsidiary Hazard) Group Standard 2017 HSR002571 Fertilisers (Subsidiary Hazard) Group Standard 2017 HSR002648 Refining Catalysts Group Standard 2017 HSR002653 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002544 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002549 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017 HSR100757 Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017 HSR100758 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 HSR100759 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017 HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017 HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002670	Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017
HSR002578 Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2017  HSR002684 Dental Products (Subsidiary Hazard) Group Standard 2017  HSR002684 Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2017  HSR002573 Fire Fighting Chemicals Group Standard 2017  HSR100425 Pharmaceutical Active Ingredients Group Standard 2017  HSR002600 Leather and Textile Products (Subsidiary Hazard) Group Standard 2017  HSR002571 Fertilisers (Subsidiary Hazard) Group Standard 2017  HSR002584 Refining Catalysts Group Standard 2017  HSR002683 Solvents (Subsidiary Hazard) Group Standard 2017  HSR002544 Construction Products (Subsidiary Hazard) Group Standard 2017  HSR002549 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017  HSR100757 Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017  HSR100758 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017  HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017  HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002638	Photographic Chemicals (Subsidiary Hazard) Group Standard 2017
HSR002558 Dental Products (Subsidiary Hazard) Group Standard 2017 HSR002684 Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002573 Fire Fighting Chemicals Group Standard 2017 HSR100425 Pharmaceutical Active Ingredients Group Standard 2017 HSR002600 Leather and Textile Products (Subsidiary Hazard) Group Standard 2017 HSR002571 Fertilisers (Subsidiary Hazard) Group Standard 2017 HSR002648 Refining Catalysts Group Standard 2017 HSR002653 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002544 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002549 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017 HSR100757 Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017 HSR100758 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017 HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002565	Embalming Products (Subsidiary Hazard) Group Standard 2017
HSR002684 Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2017 HSR002573 Fire Fighting Chemicals Group Standard 2017 HSR100425 Pharmaceutical Active Ingredients Group Standard 2017 HSR002600 Leather and Textile Products (Subsidiary Hazard) Group Standard 2017 HSR002571 Fertilisers (Subsidiary Hazard) Group Standard 2017 HSR002648 Refining Catalysts Group Standard 2017 HSR002653 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002544 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002549 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017 HSR100757 Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017 HSR100758 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 HSR100759 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017 HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017 HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002578	Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2017
HSR002573 Fire Fighting Chemicals Group Standard 2017  HSR100425 Pharmaceutical Active Ingredients Group Standard 2017  HSR002600 Leather and Textile Products (Subsidiary Hazard) Group Standard 2017  HSR002571 Fertilisers (Subsidiary Hazard) Group Standard 2017  HSR002648 Refining Catalysts Group Standard 2017  HSR002653 Solvents (Subsidiary Hazard) Group Standard 2017  HSR002544 Construction Products (Subsidiary Hazard) Group Standard 2017  HSR002549 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017  HSR100757 Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017  HSR100758 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017  HSR100759 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017  HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017  HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002558	Dental Products (Subsidiary Hazard) Group Standard 2017
HSR100425 Pharmaceutical Active Ingredients Group Standard 2017  HSR002600 Leather and Textile Products (Subsidiary Hazard) Group Standard 2017  HSR002571 Fertilisers (Subsidiary Hazard) Group Standard 2017  HSR002648 Refining Catalysts Group Standard 2017  HSR002653 Solvents (Subsidiary Hazard) Group Standard 2017  HSR002544 Construction Products (Subsidiary Hazard) Group Standard 2017  HSR002549 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017  HSR100757 Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017  HSR100758 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017  HSR100759 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017  HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017  HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002684	Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2017
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HSR002648 Refining Catalysts Group Standard 2017 HSR002653 Solvents (Subsidiary Hazard) Group Standard 2017 HSR002544 Construction Products (Subsidiary Hazard) Group Standard 2017 HSR002549 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017 HSR100757 Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017 HSR100758 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 HSR100759 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017 HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017 HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002600	Leather and Textile Products (Subsidiary Hazard) Group Standard 2017
HSR002653 Solvents (Subsidiary Hazard) Group Standard 2017  HSR002544 Construction Products (Subsidiary Hazard) Group Standard 2017  HSR002549 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017  HSR100757 Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017  HSR100758 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017  HSR100759 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017  HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017  HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002571	Fertilisers (Subsidiary Hazard) Group Standard 2017
HSR002544 Construction Products (Subsidiary Hazard) Group Standard 2017  HSR002549 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017  HSR100757 Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017  HSR100758 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017  HSR100759 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017  HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017  HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002648	Refining Catalysts Group Standard 2017
HSR002549 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017 HSR100757 Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017 HSR100758 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 HSR100759 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017 HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017 HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002653	Solvents (Subsidiary Hazard) Group Standard 2017
HSR100757 Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017  HSR100758 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017  HSR100759 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017  HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017  HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002544	Construction Products (Subsidiary Hazard) Group Standard 2017
HSR100758 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 HSR100759 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017 HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017 HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR002549	Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017
HSR100759 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017  HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017  HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR100757	Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017
HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2017  HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR100758	Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017
HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	HSR100759	Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017
	HSR002612	Metal Industry Products (Subsidiary Hazard) Group Standard 2017
HSR002552 Cosmetic Products Group Standard 2017	HSR002503	Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017
	HSR002552	Cosmetic Products Group Standard 2017

#### CALCIUM CARBONATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO)  $\operatorname{Act}$  - Classification of Chemicals

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

#### C.I. PIGMENT WHITE 18 IS FOUND ON THE FOLLOWING REGULATORY LISTS

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO)  $\operatorname{Act}$  - Classification of Chemicals

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

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

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

### BIS(2-PROPYLHEPTYL)PHTHALATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

New Zealand Inventory of Chemicals (NZIoC)

## N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENEDIAMINE 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 Inventory of Chemicals (NZIoC)

## TITANIUM DIOXIDE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Chemwatch: 5333-03 Version No: 4.1.1.1

Ardex RA 030 Plus

Issue Date: 01/11/2019 Print Date: 15/07/2020

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

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)

## CARBON BLACK IS FOUND ON THE FOLLOWING REGULATORY LISTS

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

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)

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)

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

New Zealand Workplace Exposure Standards (WES)

New Zealand Approved Hazardous Substances with controls

#### DIBUTYLTIN OXIDE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Chemical Footprint Project - Chemicals of High Concern List

New Zealand Approved Hazardous Substances with controls

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

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

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

#### DIISONONYL PHTHALATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Chemical Footprint Project - Chemicals of High Concern List

New Zealand Approved Hazardous Substances with controls

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

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

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

#### **Hazardous Substance Location**

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

Hazard Class	Quantity beyond which controls apply for closed containers	Quantity beyond which controls apply when use occurring in open containers
Not Applicable	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

#### **Tracking Requirements**

Not Applicable

## **National Inventory Status**

National Inventory	Status
Australia - AICS	Yes
Canada - DSL	Yes
Canada - NDSL	No (C.I. Pigment White 18; bis(2-propylheptyl)phthalate; N-[3-(trimethoxysilyl)propyl]ethylenediamine; carbon black; dibutyltin oxide; diisononyl phthalate)
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	No (bis(2-propylheptyl)phthalate; N-[3-(trimethoxysilyl)propyl]ethylenediamine; dibutyltin oxide)
Vietnam - NCI	Yes
Russia - ARIPS	No (bis(2-propylheptyl)phthalate)
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	01/11/2019
Initial Date	31/10/2018

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#### Ardex RA 030 Plus

#### **SDS Version Summary**

Version	Issue Date	Sections Updated
2.1.1.1	31/10/2018	Chronic Health, Classification
4.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification

#### 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

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

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