

Ardex (Ardex Australia)

Chemwatch: 5396-80 Version No: 4.1

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Chemwatch Hazard Alert Code: 2 Issue Date: 23/12/2022 Print Date: 28/06/2023 L.GHS.AUS.EN.E

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

Product Identifier

Product name	Ardex WR Prime
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	Not Available

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

Details of the manufacturer or supplier of the safety data sheet

Registered company name	Ardex (Ardex Australia)	
Address	0 Powers Road Seven Hills NSW 2147 Australia	
Telephone	1800 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	0		0 = Minimum
Body Contact	1	1	1 = Low
Reactivity	0		2 = Moderate
Chronic	2	1	3 = High 4 = Extreme

Poisons Schedule	Not Applicable
Classification ^[1]	Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2A
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Hazard pictogram(s)	
Signal word	Warning

Hazard statement(s)

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Precautionary statement(s) Prevention

P280	P280 Wear protective gloves, protective clothing, eye protection and face protection.	
P261	Avoid breathing mist/vapours/spray.	
P264	Wash all exposed external body areas thoroughly after handling.	
P272	Contaminated work clothing should not be allowed out of the workplace.	

Precautionary statement(s) Response

P302+P352	IF ON SKIN: Wash with plenty of water.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

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

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
65405-61-0	10-30	styrene acrylate copolymer
9003-55-8	10-30	styrene/ butadiene copolymer
2682-20-4	<1	2-methyl-4-isothiazolin-3-one
Not Available	>60	Ingredients determined not to be hazardous
Legend:	1. Classified by Chernwatch; 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	 If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Extinguishing media

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

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

- foam.
- dry chemical powder.
- carbon dioxide.

Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
dvice 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. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	 The material is not readily combustible under normal conditions. However, it will break down under fire conditions and the organic component may burn. Not considered to be a significant fire risk. Heat may cause expansion or decomposition with violent rupture of containers. Decomposes on heating and may produce toxic fumes of carbon monoxide (CO). May emit acrid smoke.
HAZCHEM	May emit poisonous fumes. May emit corrosive fumes. Not Applicable

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	 Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Neutralise/decontaminate residue (see Section 13 for specific agent). Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. If contamination of drains or waterways occurs, advise emergency services.

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

SECTION 7 Handling and storage

Precautions for safe handling	
Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers.

	 Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS.
	 Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained DO NOT allow clothing wet with material to stay in contact with skin
Other information	 Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area.
	 Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Polyethylene or polypropylene container.

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

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
Ardex WR Prime	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
styrene acrylate copolymer	Not Available		Not Available	
styrene/ butadiene copolymer	Not Available		Not Available	
2-methyl-4-isothiazolin-3-one	Not Available		Not Available	

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
2-methyl-4-isothiazolin-3-one	D > 0.01 to ≤ 0.1 mg/m ³		
Notes:	Occupational exposure banding is a process of assigning chemicals into s adverse health outcomes associated with exposure. The output of this pro range of exposure concentrations that are expected to protect worker hea	cess is an occupational exposure band (OEB), which corresponds to a	

MATERIAL DATA

Exposure controls

	Engineering controls are used to remove a hazard or place a be highly effective in protecting workers and will typically be in The basic types of engineering controls are: Process controls which involve changing the way a job activit Enclosure and/or isolation of emission source which keeps a "adds" and "removes" air in the work environment. Ventilation ventilation system must match the particular process and che Employers may need to use multiple types of controls to prev	ndependent of worker interactions to provide this high level y or process is done to reduce the risk. selected hazard "physically" away from the worker and ven o can remove or dilute an air contaminant if designed proper mical or contaminant in use.	of protection. tilation that strategical	
	Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection.			
	An approved self contained breathing apparatus (SCBA) may			
	Provide adequate ventilation in warehouse or closed storage velocities which, in turn, determine the "capture velocities" of	Ŭ 1 1	, , ,	
		mesh circulating an required to enectively remove the conta		
	Type of Contaminant:		Air Speed:	
Appropriate engineering controls	solvent, vapours, degreasing etc., evaporating from tank (in still air).		0.25-0.5 m/s (50-100 f/min.)	
	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)		0.5-1 m/s (100-200 f/min.)	
	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)			
		conveyer loading, crusher dusts, gas discharge (active	1-2.5 m/s (200-50 f/min.)	
			1-2.5 m/s (200-50) f/min.) 2.5-10 m/s (500-2000 f/min.)	
	generation into zone of rapid air motion) grinding, abrasive blasting, tumbling, high speed wheel ger		f/min.) 2.5-10 m/s	
	generation into zone of rapid air motion) grinding, abrasive blasting, tumbling, high speed wheel ger very high rapid air motion).		f/min.) 2.5-10 m/s	
	generation into zone of rapid air motion) grinding, abrasive blasting, tumbling, high speed wheel gen very high rapid air motion). Within each range the appropriate value depends on:	nerated dusts (released at high initial velocity into zone of	f/min.) 2.5-10 m/s	
	generation into zone of rapid air motion) grinding, abrasive blasting, tumbling, high speed wheel ger very high rapid air motion). Within each range the appropriate value depends on: Lower end of the range	erated dusts (released at high initial velocity into zone of Upper end of the range	f/min.) 2.5-10 m/s	

4: Large hood or large air mass in motion 4: Small hood-local control only Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used. Individual protection measures, such as personal protective equipment Safety glasses with side shields. Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent] Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption Eye and face protection and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59]. Skin protection See Hand protection below Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: · frequency and duration of contact · chemical resistance of glove material, · glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). · When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. · When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN Hands/feet protection 374, AS/NZS 2161.10.1 or national equivalent) is recommended. · Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. · Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are rated as: · Excellent when breakthrough time > 480 min Good when breakthrough time > 20 min · Fair when breakthrough time < 20 min · Poor when glove material degrades For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended. It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most appropriate glove for the task. Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: · Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of. Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended Body protection See Other protection below Overalls P.V.C apron. Other protection Barrier cream. Skin cleansing cream. Eye wash unit.

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:

Ardex WR Prime

Material	CPI
BUTYL	A
NATURAL RUBBER	С

Respiratory protection

Type BAX-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator	
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NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
PE	С
PE/EVAL/PE	С
PVA	С
PVC	С
TEFLON	С
VITON	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.

up to 10	1000	BAX-AUS / Class1 P2	-
up to 50	1000	-	BAX-AUS / Class 1 P2
up to 50	5000	Airline *	-
up to 100	5000	-	BAX-2 P2
up to 100	10000	-	BAX-3 P2
100+			Airline**

* - Continuous Flow ** - Continuous-flow or positive pressure demand A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Liquid; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	Not Available
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 (°C)	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)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 Stability and reactivity

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

SECTION 11 Toxicological information

Information on toxicological effects

	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal
Inhaled	models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an
	occupational setting.

	Not normally a hazard due to non-volatile nature of produc	ct	
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.		
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Irritation and skin reactions are possible with sensitive skin Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds 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	Limited evidence or practical experience suggests, that the material may cause eye irritation in a substantial number of individuals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.		
Chronic	individuals, and/or of producing a positive response in exp Substances that can cause occupational asthma (also knd hyper-responsiveness via an immunological, irritant or oth the substance, sometimes even to tiny quantities, may can asthma. Not all workers who are exposed to a sensitiser w become hyper-responsive. Substances than can cuase occupational asthma should b with pre-existing air-way hyper-responsiveness. The latter Wherever it is reasonably practicable, exposure to substan possible the primary aim is to apply adequate standards o Activities giving rise to short-term peak concentrations sho surveillance is appropriate for all employees exposed or li should be appropriate consultation with an occupational h On the basis, primarily, of animal experiments, concern ha	erial is capable either of inducing a sensitisation reaction in a substantial number of berimental animals. bown as asthmagens and respiratory sensitisers) can induce a state of specific airway ter mechanism. Once the airways have become hyper-responsive, further exposure to use respiratory symptoms. These symptoms can range in severity from a runny nose to vill become hyper-responsive and it is impossible to identify in advance who are likely the be distinguished from substances which may trigger the symptoms of asthma in people substances are not classified as asthmagens or respiratory sensitisers nees that can cuase occupational asthma should be prevented. Where this is not of control to prevent workers from becoming hyper-responsive. Dudl receive particular attention when risk management is being considered. Health able to be exposed to a substance which may cause occupational asthma and there ealth professional over the degree of risk and level of surveillance. as been expressed by at least one classification body that the material may produce ble information, however, there presently exists inadequate data for making a	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
Ardex WR Prime	Not Available	Not Available	
	τοχιςιτγ	IRRITATION	
styrene acrylate copolymer	Not Available	Not Available	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
styrene/ butadiene copolymer	Dermal (rabbit) LD50: >20000 mg/kg ^[2]	Eye (rabbit) 500: mg/24h -	
	Oral (Rat) LD50: 71000 mg/kg ^[2]	Eye : Mild	

	Oral (Rat) LD50: 71000 mg/kg ^[2]	Eye : Mild	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
2-methyl-4-isothiazolin-3-one	dermal (rat) LD50: 242 mg/kg ^[1]	Eye: adverse effect observed (irreversible damage) ^[1]	
	Inhalation(Rat) LC50: 0.1 mg/l4h ^[1]	Skin: adverse effect observed (corrosive) ^[1]	
	Oral (Rat) LD50: 120 mg/kg ^[1]		
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		

The substance is classified by IARC as Group 3: STYRENE/ BUTADIENE NOT classifiable as to its carcinogenicity to humans. COPOLYMER Evidence of carcinogenicity may be inadequate or limited in animal testing. 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. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested. 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 2-METHYLairflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal 4-ISOTHIAZOLIN-3-ONE lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production. Exposure to the material may result in a possible risk of irreversible effects. The material may produce mutagenic effects in man. This concern is raised, generally, on the basis of appropriate studies with similar materials using mammalian somatic cells in vivo. Such findings are often supported by positive results from in vitro mutagenicity studies. In light of potential adverse effects, and to ensure a harmonised risk assessment and management, the EU regulatory framework for biocides has been established with the objective of ensuring a high level of protection of human and animal health and the environment. To this aim, it is required that risk assessment of biocidal products is carried out before they can be placed on the market. A central element in the risk

	assessment of the biocidal products are the utilization in thus the exposure of humans and the environment to the Humans may be exposed to biocidal products in differer for industrial sectors or professional uses only, whereas users. In addition, potential exposure of non-users of bic example through drinking water, the food chain, as well the exposed indirectly following the application of biocidal pr contact, and ingestion) and pathway (food, drinking wate No significant acute toxicological data identified in literat The material may cause skin irritation after prolonged or dermatitis is often characterised by skin redness (erythe spongy layer (spongiosis) and intracellular oedema of th The European Union has reclassified several formaldeh and hydroxypropylamine (HPT) as category 1B carcinog releasing agents were not. This is no longer the case. B releasable formaldehyde is more than > 1000 ppm (>0.1 Water mix metalworking fluids are subject to contaminat maintenance. The use of preservatives both within the fo potentially harmful microbes that could cause health pro A large proportion of bactericides on the market today a conditions they release small amounts of formaldehyde- biocide their use may become restricted or unfavourable. A decision by the ECHA (European Chemicals Agency) mutagen in June 2015. It has also been proposed by the ECHA Risk Assessme formaldehyde because formaldehyde is released when t microorganisms). Formaldehyde generators (releasers) are often used as following hydrolysis. The most widely used antimicrobial release detectable levels of formaldehyde into the air sp Many countries are placing regulatory pressure on supp Formaldehyde generators are a diverse group of chemic by reacting an amino alcohol with formaldehyde ("formal There is concern that when formaldehyde-releasing pres (TEA), diethanolamine (DEA), or monoethanolamine (M potentially penetrate skin. One widely-discussed hypothesis states that formaldehy the microbial flora of in-use metalworking fluids (MWFs)) proliferation	e biocidal substance. It ways in both occupational and dom other biocidal products are commonly bocidal products (i.e. the general public as through atmospheric and residenti e elderly, pregnant women, and childre roducts. Furthermore, exposure to bio er, residential, occupational) of expose the search. repeated exposure and may produce ima) and swelling epidermis. Histologi the epidermis. yde-releasing agents (FRAs) such as gens. Previously, formaldehyde itself 1%), have to be labelled as carcinogen- tion by bacteria and fungi, and the cor- formulation and tank-side treatment pla- blems for workers. re classed as formaldehyde releasing – this is their mode of action in the pri- e due to potential changes in legislatic was made to re-classify formaldehyde these substances come into contact u preservatives (antimicrobials, biocide loompounds function by releasing for sace, above working solutions, especi- liers and users to replace formaldehyde all dehyde-condensates"), servatives are present in a formulation EA), nitrosamines can be formed,; nit ryde-condensate biocides, such as tria . The hypothesis further asserts that tf TM) in MWFs and that the subsequent sic allergic alveolitis, in a small percer- <i>nices in this Annex and which release</i> <i>malechyde in the finished product exc</i> o release formaldehyde in very small ree formaldehyde in the product is a reacts most rapidly with organic and i entually causing death of the organism	estic settings. Many biocidal products are intended y available for private use by non-professional) may occur indirectly via the environment, for al exposure. Particular attention should be paid to en. Also pets and other domestic animals can be cides may vary in terms of route (inhalation, dermal ure, level, frequency and duration. e a contact dermatitis (nonallergic). This form of cally there may be intercellular oedema of the methylenedimorpholine (MBM), oxazolidine (MBO) vas classed as a carcinogen – but formaldehyde- or which the maximum theoretical concentration of nic. htrol of this is an essential part of good fluid ays a significant contribution in the protection of biocides which means that under specific esence of bacteria. Although they are effective as a an. e as a category 1b H350 carcinogen and category 2 de release biocides should be classified the same as inder favorable conditions (i.e. interaction with s, microbiocides). Formaldehyde may be generated maldehyde once inside the microbe cell. Some ally when pH has dropped. de generators. I, easily detachable formaldehyde moiety, prepared In that also includes amines, such as triethanolamine rosamines are carcinogenic substances that can zines and oxazolidines, may cause an imbalance in his putative microbial imbalance favours the t inhalation of NTM-containing aerosols can cause tage of susceptible workers. Symptoms of HP tration of free formaldehyde is 0.2% (2000 ppm). In <i>formaldehyde must be labelled with the warning eeds 0.05%</i> . amounts over time. The use of formaldehyde- lways very low but at the same time sufficient to norganic anions, amino and sulfide groups and h.
	NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA.		
	Considered to be a minor sensitiser in Kathon CG (1) (1). Bruze etal - Contact Dermatitis 20:	219-39, 1989
STYRENE/ BUTADIENE COPOLYMER & 2-METHYL- 4-ISOTHIAZOLIN-3-ONE	The material may be irritating to the eye, with prolonged conjunctivitis.	contact causing inflammation. Repea	ated or prolonged exposure to irritants may produce
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
			M

Acute Toxicity	×
Skin Irritation/Corrosion	×
Serious Eye Damage/Irritation	×
Respiratory or Skin sensitisation	*
Mutagenicity	×

Aspiration Hazard

STOT - Single Exposure

STOT - Repeated Exposure

x x

×

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

Continued...

SECTION 12 Ecological information

	En du ciut	Test Duration (ba)	Creation .	Malua	C
	Endpoint	Test Duration (hr)	Species	Value	Source
Ardex WR Prime	Not Available	Not Available	Not Available	Not Available	Not Available
styrene acrylate copolymer	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
styrene/ butadiene copolymer	Not Available	Not Available	Not Available	Not Available	Not Available

	Endpoint	Test Duration (hr)	Species	Value	Source
2-methyl-4-isothiazolin-3-one	NOEC(ECx)	96h	Algae or other aquatic plants	0.01mg/l	2
	EC50	96h	Algae or other aquatic plants	0.0607mg/l	2
	EC50	72h	Algae or other aquatic plants	0.0569mg/l	2
	LC50	96h	Fish	0.081-0.122mg/L	4
	EC50	48h	Crustacea	0.189-0.257mg/L	4
Legend:		, , ,	tered Substances - Ecotoxicological Information lazard Assessment Data 6. NITE (Japan) - Bioco		

DO NOT discharge into sewer or waterways.

Persistence: Water/Soil	Persistence: Air
liGH	HIGH
	GH

Ingredient Bioaccumulation 2-methyl-4-isothiazolin-3-one LOW (LogKOW = -0.8767) Mahillin in anil

- Bioconcentration Data 8. Vendor Data

MODILITY IN SOIL	
Ingredient	Mobility
2-methyl-4-isothiazolin-3-one	LOW (KOC = 27.88)

SECTION 13 Disposal considerations

Waste treatment methods • 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. Product / Packaging disposal Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material). Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

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
styrene acrylate copolymer	Not Available
styrene/ butadiene copolymer	Not Available
2-methyl-4-isothiazolin-3-one	Not Available

Transport in bulk in accordance with the IGC Code

Product name	Ship Type
styrene acrylate copolymer	Not Available
styrene/ butadiene copolymer	Not Available
2-methyl-4-isothiazolin-3-one	Not Available

SECTION 15 Regulatory information

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

styrene acrylate copolymer is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

styrene/ butadiene copolymer is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

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

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 6

National Inventory Status

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

Australian Inventory of Industrial Chemicals (AIIC)

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (styrene acrylate copolymer; styrene/ butadiene copolymer; 2-methyl-4-isothiazolin-3-one)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	No (styrene acrylate copolymer; styrene/ butadiene copolymer)	
Japan - ENCS	No (styrene acrylate copolymer)	
Korea - KECI	No (styrene acrylate copolymer)	
New Zealand - NZIoC	No (styrene acrylate copolymer)	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	No (styrene acrylate copolymer)	
Mexico - INSQ	No (styrene acrylate copolymer)	
Vietnam - NCI	Yes	
Russia - FBEPH	No (styrene acrylate copolymer)	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

SECTION 16 Other information

Revision Date	23/12/2022
Initial Date	30/04/2020

SDS Version Summary

Version	Date of Update	Sections Updated
3.1	03/09/2020	Classification change due to full database hazard calculation/update.
4.1	23/12/2022	Classification review due to GHS Revision change.

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC - TWA: Permissible Concentration-Time Weighted Average PC - STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit, IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers

ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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