

Ardex WPM 170

Ardex (Ardex NZ)

Chemwatch: 5374-33

Version No: 4.1 Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017 Chemwatch Hazard Alert Code: 2

Issue Date: 23/12/2022 Print Date: 08/10/2024 L.GHS.NZL.EN.E

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

Product Identifier

Product name	Ardex WPM 170
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

Relevant identified uses Waterproofing - professional use.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	Ardex (Ardex NZ)
Address	32 Lane Street Woolston Christchurch New Zealand
Telephone	+64 3384 3029 +64 3384 9779
Fax	+64 3384 9779
Website	www.ardex.co.nz
Email	info@ardexnz.com

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.

Classification ^[1]	Hazardous to the Aquatic Environment Long-Term 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	9.1C	

Label elements

Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable
Hazard statement(s)	
H412	Harmful to aquatic life with long lasting effects.
Precautionary statement(s) Prevention	
P273	Avoid release to the environment.

Precautionary statement(s) Res	spansa
Not Applicable	iponse
Precautionary statement(s) Storage	
Not Applicable	
Precautionary statement(s) Dis	posal
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
119-61-9	0.04-1.2	benzophenone
Legend:	 Classified by Chernwatch; 2. Classification drawn from CCI VI; 4. Classification drawn from C&L * EU IOELVs available 	D EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex

SECTION 4 First aid measures

Description of first aid measures

Eye Contact	If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, 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.

SECTION 5 Firefighting measures

Extinguishing media

- Water spray or fog.
- Foam.
- Dry chemical powder. BCF (where regulations permit).
- Carbon dioxide.

Special hazards arising from th Fire Incompatibility	 P substrate or mixture Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
dvice for firefighters	······································
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. 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.
Fire/Explosion Hazard	 Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). May emit acrid smoke. Mists containing combustible materials may be explosive. Combustion products include: 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

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Remove all ignition sources. 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. No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. 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	 DO NOT allow clothing wet with material to stay in contact with skin 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. Avoid smoking, naked lights or ignition sources. 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. Always wash hands with soap and water after handling. Work clothes should be laundered separately. 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.
Other information	 Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. 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.

Conditions for safe storage, including any incompatibilities

Suitable container	 Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	Avoid reaction with oxidising agents

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits	(OEL)	
INGREDIENT DATA		
Not Available		
Ingredient	Original IDLH	Revised IDLH
benzophenone	Not Available	Not Available
Occupational Exposure Bandi	ng	
Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
benzophenone	E	≤ 0.01 mg/m³
Notes:	Occupational exposure banding is a process of assigning chemicals	into specific categories or bands based on a chemical's potency and the

Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

MATERIAL DATA

Exposure controls

Appropriate engineering controls

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. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. 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 be required in some situations. Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant. Type of Contaminant 0.25-0.5 m/s (50solvent, vapours, degreasing etc., evaporating from tank (in still air). 100 f/min.) aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, 0.5-1 m/s (100spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) 200 f/min.) direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active 1-2.5 m/s (200generation into zone of rapid air motion) 500 f/min.) grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone 2.5-10 m/s (500of very high rapid air motion). 2000 f/min.) Within each range the appropriate value depends on: Lower end of the range Upper end of the range 1: Room air currents minimal or favourable to capture 1: Disturbing room air currents 2: Contaminants of low toxicity or of nuisance value only. 2: Contaminants of high toxicity 3: Intermittent, low production 3: High production, heavy use 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 Eye and face protection lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eve redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 591. Skin protection See Hand protection below Wear chemical protective gloves, e.g. PVC. Hands/feet protection 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 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 \cdot 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
Other protection	 Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. Eye wash unit.

Respiratory protection

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

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

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	A-AUS / Class1	-
up to 50	1000	-	A-AUS / Class 1
up to 50	5000	Airline *	-
up to 100	5000	-	A-2
up to 100	10000	-	A-3
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	Coloured liquid; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	1.13-1.23
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	8.5	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Applicable	Viscosity (cSt)	5635.59-6567.80
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	>100 (PMCC)	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	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
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	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

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.	
Ingestion	The material has NOT been classified by EC Directives or other classif of corroborating animal or human evidence. The material may still be d where pre-existing organ (e.g liver, kidney) damage is evident. Present doses producing mortality rather than those producing morbidity (disea and vomiting. In an occupational setting however, ingestion of insignific	lamaging to the health of the individual, following ingestion, especially t definitions of harmful or toxic substances are generally based on use, ill-health). Gastrointestinal tract discomfort may produce nausea
Skin Contact	Limited evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis. 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	Although the liquid is not thought to be an irritant (as classified by EC I discomfort characterised by tearing or conjunctival redness (as with wir	
Chronic	On the basis, primarily, of animal experiments, concern has been expressed that the material may produce carcinogenic or mutagenic effects; in respect of the available information, however, there presently exists inadequate data for making a satisfactory assessment. Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals. Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological, irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even to tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance who are likely to become hyper-responsive. Substances are not classified as asthmagens or respiratory sensitisers Wherever it is reasonably practicable, exposure to substances that can cuase occupational asthma in people with pre-existing air-way hyper-responsiveness. The latter substances are not classified as asthmagens or respiratory sensitisers Wherever it is reasonably practicable, exposure to substances that can cuase occupational asthma should be prevented. Where this is not possible the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate consultation with an occupational health professional over the degree of risk and level of surveillance. Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs	
	Limited evidence suggests that repeated or long-term occupational exp biochemical systems.	posure may produce cumulative health effects involving organs or
Ardex WPM 170	Limited evidence suggests that repeated or long-term occupational exp	
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Ardex WPM 170 benzophenone	Limited evidence suggests that repeated or long-term occupational exp biochemical systems. TOXICITY Not Available	IRRITATION IRRITATION IRRITATION IRRITATION
	Limited evidence suggests that repeated or long-term occupational exp biochemical systems. TOXICITY Not Available TOXICITY	Dosure may produce cumulative health effects involving organs or IRRITATION Not Available
	Limited evidence suggests that repeated or long-term occupational exploitochemical systems. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 3535 mg/kg ^[2]	IRRITATION IRRITATION Eye: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise
benzophenone	Limited evidence suggests that repeated or long-term occupational exploiochemical systems. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 3535 mg/kg ^[2] Oral (Mouse) LD50; 2895 mg/kg ^[2] 1. Value obtained from Europe ECHA Registered Substances - Acute to	IRRITATION IRRITATION Eye: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise

(GRAS) based, in part, on their rapid absorption, metabolic detoxication, and excretion in humans and other animals; their low level of flavor

	subchronic and chronic studies and the lack of signif Acute rat oral LD50 values have been reported for 1 10,000 mg/kg bw. However, the majority of these val substituted secondary alcohols, ketones, and related Short-term toxicity studies have been performed for and related esters. The results of these studies prov 100,000–1,000,000 times) the daily per capita intake ingredients. Predominantly negative results are reported in in vitr most studied substance, benzoin, is also the one exil evidence of in vivo genotoxicity or carcinogenicity of for genotoxicity. Results of in vivo genotoxicity assays were predomin Simple aromatic ketones and aromatic secondary al and excreted primarily in the urine, and to a very mir The side-chain length of the aromatic ketone or secc interconvertible. In major metabolic pathways, the ket excreted as the glucuronic acid conjugate. If the alky phenylacetic acid derivative or, if the alkyl chain is or	icant genotoxic and mutagenic pote 7 of the 38 agents in this group. The ues are >1000 mg/kg bw, demonstr 4 esters is extremely low. a representative number (12 of 38) of ided no-observable adverse effect le ("eaters only) of the respective sul o genotoxicity assays for aromatic k hibiting the most positive results in ir benzoin in rats and mice supports th nantly negative cohols have been shown to be rapid or extent, in the faeces. ondary alcohol does not significantly tone is stereoselectively reduced to d chain is even numbered, the keton	se values are in the range from 400 to greater than ating that the oral acute toxicity of aromatic of aromatic substituted secondary alcohols, ketones, evels (NOAELs) that are at least 1000 times (most ostances for their intended use as flavoring etones, secondary alcohols, and related esters. The in vitro assays The absence of any consistent ne conclusion that benzoin exhibits a low potential ly absorbed from the gut, metabolised by the liver affect metabolism. The ketone and alcohol are the corresponding alcohol that is subsequently e may undergo oxidation and cleavage to yield a
	excreted almost exclusively as glycine conjugates Hydrolysis of esters occurs in all animals leading to I through the catalytic activity of carboxylesterases, th Hydrolysis of alpha-methylbenzyl esters yields alpha structurally related benzyl esters (benzyl acetate, be intestinal fluid containing pancreatin indicates that si hydrolysis is also expected in the blood and liver. Flavor and Extract Manufacturers' Association (FEM	e most important of which are the A -methylbenzyl alcohol and simple al nzyl 2-methylbutanoate, benzyl cinn gnificant ester hydrolysis is expected	esterases iphatic carboxylic acids. In vitro hydrolysis of amate, and benzyl phenylacetate) in simulated
Acute Toxicity	Hydrolysis of esters occurs in all animals leading to through the catalytic activity of carboxylesterases, the Hydrolysis of alpha-methylbenzyl esters yields alpha structurally related benzyl esters (benzyl acetate, be intestinal fluid containing pancreatin indicates that si hydrolysis is also expected in the blood and liver.	e most important of which are the A -methylbenzyl alcohol and simple al nzyl 2-methylbutanoate, benzyl cinn gnificant ester hydrolysis is expected	esterases iphatic carboxylic acids. In vitro hydrolysis of amate, and benzyl phenylacetate) in simulated
Acute Toxicity Skin Irritation/Corrosion	Hydrolysis of esters occurs in all animals leading to through the catalytic activity of carboxylesterases, the Hydrolysis of alpha-methylbenzyl esters yields alpha structurally related benzyl esters (benzyl acetate, be intestinal fluid containing pancreatin indicates that si hydrolysis is also expected in the blood and liver. Flavor and Extract Manufacturers' Association (FEM	e most important of which are the A -methylbenzyl alcohol and simple al nzyl 2-methylbutanoate, benzyl cinn gnificant ester hydrolysis is expected A)	esterases iphatic carboxylic acids. In vitro hydrolysis of amate, and benzyl phenylacetate) in simulated d prior to absorption. After absorption, rapid in vivo
	Hydrolysis of esters occurs in all animals leading to through the catalytic activity of carboxylesterases, the Hydrolysis of alpha-methylbenzyl esters yields alpha structurally related benzyl esters (benzyl acetate, be intestinal fluid containing pancreatin indicates that si hydrolysis is also expected in the blood and liver. Flavor and Extract Manufacturers' Association (FEM	e most important of which are the A -methylbenzyl alcohol and simple al nzyl 2-methylbutanoate, benzyl cinn gnificant ester hydrolysis is expected A) Carcinogenicity	esterases iphatic carboxylic acids. In vitro hydrolysis of amate, and benzyl phenylacetate) in simulated d prior to absorption. After absorption, rapid in vivo
Skin Irritation/Corrosion Serious Eye	Hydrolysis of esters occurs in all animals leading to t through the catalytic activity of carboxylesterases, th Hydrolysis of alpha-methylbenzyl esters yields alpha structurally related benzyl esters (benzyl acetate, be intestinal fluid containing pancreatin indicates that si hydrolysis is also expected in the blood and liver. Flavor and Extract Manufacturers' Association (FEM	e most important of which are the A -methylbenzyl alcohol and simple al nzyl 2-methylbutanoate, benzyl cinn gnificant ester hydrolysis is expected A) Carcinogenicity Reproductivity	esterases iphatic carboxylic acids. In vitro hydrolysis of amate, and benzyl phenylacetate) in simulated d prior to absorption. After absorption, rapid in vivo

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

SECTION 12 Ecological information

Toxicity

Endpoint	Test Duration (hr)	Species	Value	Source
Not Available	Not Available	Not Available	Not Available	Not Available
Endpoint	Test Duration (hr)	Species	Value	Source
BCF	1008h	Fish	3.4-9.2	7
EC50	72h	Algae or other aquatic plants	1.8mg/l	2
EC50	48h	Crustacea	6.784mg/l	2
LC50	96h	Fish	9.64- 12.31mg/l	4
NOEC(ECx)	504h	Crustacea	0.2mg/l	2
	, , , , , , , , , , , , , , , , , , ,	0	, , ,	
	Not Available Endpoint BCF EC50 LC50 NOEC(ECx) Extracted from	Not Available Not Available Endpoint Test Duration (hr) BCF 1008h EC50 72h EC50 48h LC50 96h NOEC(ECx) 504h Extracted from 1. IUCLID Toxicity Data 2. Europe EC	Not Available Not Available Not Available Endpoint Test Duration (hr) Species BCF 1008h Fish EC50 72h Algae or other aquatic plants EC50 48h Crustacea LC50 96h Fish NOEC(ECx) 504h Crustacea Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Info	Not AvailableNot AvailableNot AvailableEndpointTest Duration (hr)SpeciesValueBCF1008hFish3.4-9.2EC5072hAlgae or other aquatic plants1.8mg/lEC5048hCrustacea6.784mg/lLC5096hFish9.64- 12.31mg/l

Legend:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **DO NOT** discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
benzophenone	HIGH	HIGH
Bioaccumulative potential		
Ingredient	Bioaccumulation	
benzophenone	LOW (BCF = 9.2)	
Mobility in soil		
Ingredient	Mobility	
benzophenone	LOW (Log KOC = 1077)	

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal

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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.

Do not dispose to the environment any component, which may be biocumulative or not rapidly degradable.

Only discharge the substance to the environment if an environmental exposure limit has been set for the substance.

Only deposit the hazardous substance into or onto a landfill or sewage facility or incinerator, where the hazardous substance can be handled and treated appropriately.

SECTION 14 Transport information

Labels Required

Marine Pollutant	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

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

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
benzophenone	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
benzophenone	Not Available

SECTION 15 Regulatory information

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

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard			
HSR002521	Animal Nutritional and Animal Care Products Group Standard 2020			
HSR002530	Cleaning Products Subsidiary Hazard Group Standard 2020			
HSR002535	Gases under Pressure Mixtures Subsidiary Hazard Group Standard 2020			
HSR002503	Additives Process Chemicals and Raw Materials Subsidiary Hazard Group Standard 2020			
HSR002606	Lubricants Lubricant Additives Coolants and Anti freeze Agents Subsidiary Hazard Group Standard 2020			
HSR002612	Metal Industry Products Subsidiary Hazard Group Standard 2020			
HSR002624	N.O.S. Subsidiary Hazard Group Standard 2020			
HSR002638	Photographic Chemicals Subsidiary Hazard Group Standard 2020			
HSR002644	Polymers Subsidiary Hazard Group Standard 2020			
HSR002647	Reagent Kits Group Standard 2020			
HSR002648	Refining Catalysts Group Standard 2020			
HSR002653	Solvents Subsidiary Hazard Group Standard 2020			
HSR002670	Surface Coatings and Colourants Subsidiary Hazard Group Standard 2020			
HSR002684	Water Treatment Chemicals Subsidiary Hazard Group Standard 2020			
HSR100425	Pharmaceutical Active Ingredients Group Standard 2020			
HSR002600	Leather and Textile Products Subsidiary Hazard Group Standard 2020			
HSR002544	Construction Products Subsidiary Hazard Group Standard 2020			
HSR002549	Corrosion Inhibitors Subsidiary Hazard Group Standard 2020			
HSR002552	Cosmetic Products Group Standard 2020			
HSR002558	Dental Products Subsidiary Hazard Group Standard 2020			
HSR002565	Embalming Products Subsidiary Hazard Group Standard 2020			
HSR002571	Fertilisers Subsidiary Hazard Group Standard 2020			

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HSR Number	Group Standard			
HSR002573	Fire Fighting Chemicals Group Standard 2021			
HSR002578	Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020			
HSR002585	Fuel Additives Subsidiary Hazard Group Standard 2020			
HSR002596	Laboratory Chemicals and Reagent Kits Group Standard 2020			
HSR008053	Graphic Materials Group Standard 2020			
HSR100580	Tattoo and Permanent Makeup Substances Group Standard 2020			
HSR100757	/eterinary Medicines Limited Pack Size Finished Dose Group Standard 2020			
HSR100758	Veterinary Medicines Non dispersive Closed System Application Group Standard 2020			
HSR100759	Veterinary Medicines Non dispersive Open System Application Group Standard 2020			
HSR100592	Agricultural Compounds Special Circumstances Group Standard 2020			
HSR100756	Active Ingredients for Use in the Manufacture of Agricultural Compounds Group Standard 2020			

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

benzophenone 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 - Group 2B: Possibly carcinogenic to humans

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

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 Land Transport Rule: Dangerous Goods 2005 - Schedule 1 Quantity limits for dangerous goods

Additional Regulatory Information

Not Applicable

Hazardous Substance Location

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

Hazard Class	Quantities
Not Applicable	Not Applicable

Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Tracking Requirements

Not Applicable

National Inventory Status

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

SECTION 16 Other information

Revision Date	23/12/2022
Initial Date	21/10/2019

SDS Version Summarv

Version	Date of Update	Sections Updated	
3.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification	
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
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- 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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