Dentsply Sirona Pty Ltd

Chemwatch: 16-2544

Issue Date: 20/08/2021 Version No: 5.1.20.12 Print Date: 30/09/2021 Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements S.GHS.AUS.EN

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

Product Identifier

Product name	Dentsply Visco-Gel Liquid
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	Impression material.
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Details of the supplier of the safety data sheet

Registered company name	Dentsply Sirona Pty Ltd	
Address	1-21 Gilby Road Mount Waverley VIC 3149 Australia	
Telephone	1300 55 29 29	
Fax	1300 55 31 31	
Website	www.dentsplysirona.com.au	
Email	clientservices@dentsplysirona.com	

Emergency telephone number

Association / Organisation	Dentsply Sirona Pty Ltd	
Emergency telephone numbers	1300 55 29 29	
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	1
Flammability	1 📃	1
Toxicity	2	0 = Minimum
Body Contact	2	1 = Low
Reactivity	1	2 = Moderate
Chronic	3	3 = High 4 = Extreme

Poisons Schedule	Not Applicable	
Classification ^[1]	Acute Toxicity (Oral) Category 4, Acute Toxicity (Dermal) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Acute Toxicity (Inhalation) Category 4, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, Reproductive Toxicity Category 1B, Hazardous to the Aquatic Environment Long-Term Hazard Category 3	
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

Label elements

Hazard pictogram(s)	
Signal word	Danger

Hazard statement(s)

Chemwatch Hazard Alert Code: 3

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H360	May damage fertility or the unborn child.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Vear 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.	
P270	Do not eat, drink or smoke when using this product.	
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.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.	
P302+P352	IF ON SKIN: Wash with plenty of water and soap.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P330	Rinse mouth.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	

Precautionary statement(s) Storage

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

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
85-70-1	>50	butoxycarbonylmethyl butyl phthalate
64-17-5	2.5-10	ethanol
84-74-2	2.5-10 dibutyl phthalate	
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

Description of mist and measure	
Eye Contact	 If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.

	 Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.
Ingestion	 IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact a Poisons Information Centre or a doctor. Urgent hospital treatment is likely to be needed. In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition. If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist. If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS. Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise: INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. NOTE: Wear a protective glove when inducing vomiting by mechanical means.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

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

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

Advice for filengilters	
Fire Fighting	 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. 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.
HAZCHEM	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

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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.
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•	Contain	spill w	/ith :	sand,	earth	or	vermiculite.
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- 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

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. 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. DO NOT allow clothing wet with material to stay in contact with skin
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

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	ethanol	Ethyl alcohol	1000 ppm / 1880 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	dibutyl phthalate	Dibutyl phthalate	5 mg/m3	Not Available	Not Available	Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
ethanol	Not Available	Not Available		15000* ppm
dibutyl phthalate	15 mg/m3	1,600 mg/m3		9300* mg/m3
Ingredient	Original IDLH		Revised IDLH	
butoxycarbonylmethyl butyl phthalate	Not Available		Not Available	
ethanol	3,300 ppm		Not Available	
dibutyl phthalate	4,000 mg/m3		Not Available	

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. 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"
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	velocities which, in turn, determine the "capture velocities" of	fresh circulating air required to effectively remove the conta	minant.
	Type of Contaminant:		Air Speed:
	solvent, vapours, degreasing etc., evaporating from tank (i	n still air).	0.25-0.5 m/s (50-100 f/min.)
	aerosols, fumes from pouring operations, intermittent conta drift, plating acid fumes, pickling (released at low velocity in		0.5-1 m/s (100-200 f/min.)
	direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion)	conveyer loading, crusher dusts, gas discharge (active	1-2.5 m/s (200-500 f/min.)
	grinding, abrasive blasting, tumbling, high speed wheel gen very high rapid air motion).	nerated dusts (released at high initial velocity into zone of	2.5-10 m/s (500-2000 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	
	accordingly, after reference to distance from the contaminatir 1-2 m/s (200-400 f/min) for extraction of solvents generated i producing performance deficits within the extraction apparatu more when extraction systems are installed or used.	n a tank 2 meters distant from the extraction point. Other me	echanical considerations,
Personal protection			
Eye and face protection	the wearing of lenses or restrictions on use, should be or and adsorption for the class of chemicals in use and an their removal and suitable equipment should be readily a remove contact lens as soon as practicable. Lens should	enses may absorb and concentrate irritants. A written policy eated for each workplace or task. This should include a revi account of injury experience. Medical and first-aid personnel vailable. In the event of chemical exposure, begin eye irriga be removed at the first signs of eye redness or irritation - le ds thoroughly. [CDC NIOSH Current Intelligence Bulletin 56	ew of lens absorption should be trained in tion immediately and ens should be removed in
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 		
Body protection	See Other protection below		
Other protection	 Overalls. P.V.C apron. 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:

Dentsply Visco-Gel Liquid

Material	CPI
BUTYL	A
NEOPRENE	A
NITRILE	A
PE/EVAL/PE	A
NATURAL RUBBER	С
IATURAL+NEOPRENE	С
EOPRENE/NATURAL	С
NITRILE+PVC	С
PVA	С
PVC	С
/ITON	С

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 ^

^ - 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)

* CPI - Chemwatch Performance Index

A: Best Selection

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

B: Satisfactory; may degrade after 4 hours continuous immersion

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.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Colourless liquid with a characteristic odour; does not mix 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 Available
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	>100	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	Immiscible	pH as a solution (%)	Not Applicable
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

Inhaled	Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful. Inhalation hazard is increased at higher temperatures. Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination.		
Ingestion	Harmful if swallowed. Strong evidence exists that this substance may cause irreversible mutations (though not lethal) even following a single exposure. The toxicity of phthalates is not excessive due to slow oral absorption and metabolism. Absorption is affected by fat in the diet. Repeated doses can cause cumulative toxic effects, and symptoms include an enlarged liver which often reverses if exposure is maintained. Carbohydrate metabolism is disrupted, and cholesterol and triglyceride levels in the blood falls. In rats, there is also strong evidence of withering of the testicles. Some phthalates can increase the effects of antibiotics, thiamine (vitamin B1) and sulfonamides.		
Skin Contact	Skin contact with the material may be harmful; systemic effects may result following absorption. This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition Open cuts, abraded or irritated skin should not be exposed to this material		
Eye	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals. Prolonged eye contact may cause inflammation characterised by a temporary redness of the conjunctiva (similar to windburn).		
Chronic	Ample evidence exists, from results in experimentation, that developmental disorders are directly caused by human exposure to the material. 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 phthalates over years leads to pain, numbness and spasms in the hands and feet. Many people have developed multiple disorders in the nervous system and the balancing system.		
Dentsply Visco-Gel Liquid	TOXICITY IRRITATION Not Available Not Available		

butoxycarbonylmethyl butyl	ΤΟΧΙCITY	IRRITATION	
phthalate	Oral(Rat) LD50; 7000 mg/kg ^[2]	Not Available	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Dermal (rabbit) LD50: 17100 mg/kg ^[1]	Eye (rabbit): 500) mg SEVERE
	Inhalation(Mouse) LC50; 39 mg/l4h ^[2]	Eye (rabbit):100	mg/24hr-moderate
ethanol	Oral(Rat) LD50; >7692 mg/kg ^[1] Eye: adverse effect observed (irritating) ^[1]		ect observed (irritating) ^[1]
		Skin (rabbit):20	mg/24hr-moderate
		Skin (rabbit):400	mg (open)-mild
		Skin: no adverse	e effect observed (not irritating) ^[1]
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Eye: no adverse	effect observed (not irritating) ^[1]
dibutyl phthalate	Inhalation(Rat) LC50; >=15.68 mg/l4h ^[1]	Skin: no adverse	e effect observed (not irritating) ^[1]
	Oral(Mammal) LD50; 100 mg/kg ^[1]		
Legend:	1. Value obtained from Europe ECHA Registered Sub specified data extracted from RTECS - Register of Tox	-	ained from manufacturer's SDS. Unless otherwise
BUTOXYCARBONYLMETHYL BUTYL PHTHALATE	The material may be irritating to the eye, with prolonge conjunctivitis. Exposure to the material for prolonged periods may ca Foetotoxicity, specific developmental abnormalities (m	ause physical defects in the developin usculoskeletal system) recorded.	g embryo (teratogenesis).
ETHANOL	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.		
	For dibutyl phthalate (DBP): In studies on rats, DBP is absorbed through the skin, a rapidly absorbed from the gastrointestinal tract distrib	although studies have shown human	skin is less permeable. Animal testing shows DBP is
DIBUTYL PHTHALATE	orally or through a vein. Accumulation has not been of other phthalate esters, which, in susceptible species, c Acute toxicity: Animal testing shows that acute toxicity lack of co-ordination. DBP appears to have little poten exposure to DBP have been reported. Repeat dose toxicity: Animal testing shows repeat exp affected. Developmental toxicity: In animal testing, DBP resulted function that were not seen in parent animals. DBP ca that DBP causes birth defects at high doses and susca adequate tests conducted to evaluate the cancer-caus Available data indicate that phthalate esters are minim weight gain, liver enlargement and induction of liver er They may reduce male and female fertility and numbe	beserved in any organ. The profile of e can cause enlarged liver, toxicity to the of DBP is low. Signs of acute toxicity tial to irritate skin or eyes or to induce bosure to DBP caused enlarged liver and d in reduced weight in offspring and ne uses toxicity to the foetus in the abset eptibility varies with developmental st ing potential of DBP. Current evidence ally toxic by swallowing, inhalation an raymes. They may also cause shrinki	nd excreted in urine as breakdown products if given ffects following exposure to DBP is similar to that of e foetus, birth defects, and damage to the testicles. include depression of activity, labored breathing and e sensitization. A few cases of sensitization after and peroxisome proliferation, The testicles were also nalformations of the male genitalia and testicle nce of maternal toxicity. Available data also indicate age and period of administration. There have not bee e suggests that DBP does not cause genetic toxicity a skin contact. Repeated exposure may result in ng of the testicles and other structural malformations
DIBUTYL PHTHALATE BUTOXYCARBONYLMETHYL BUTYL PHTHALATE & DIBUTYL PHTHALATE &	orally or through a vein. Accumulation has not been of other phthalate esters, which, in susceptible species, of Acute toxicity: Animal testing shows that acute toxicity lack of co-ordination. DBP appears to have little poten exposure to DBP have been reported. Repeat dose toxicity: Animal testing shows repeat exp affected. Developmental toxicity: In animal testing, DBP resulted function that were not seen in parent animals. DBP ca that DBP causes birth defects at high doses and susca adequate tests conducted to evaluate the cancer-caus Available data indicate that phthalate esters are minim weight gain, liver enlargement and induction of liver er	beserved in any organ. The profile of e can cause enlarged liver, toxicity to the of DBP is low. Signs of acute toxicity tial to irritate skin or eyes or to induce bosure to DBP caused enlarged liver and d in reduced weight in offspring and ne uses toxicity to the foetus in the abse eptibility varies with developmental st sing potential of DBP. Current evidence hally toxic by swallowing, inhalation ar toymes. They may also cause shrinki or of live births, according to animal te	nd excreted in urine as breakdown products if given ffects following exposure to DBP is similar to that of e foetus, birth defects, and damage to the testicles. include depression of activity, labored breathing and e sensitization. A few cases of sensitization after and peroxisome proliferation, The testicles were also halformations of the male genitalia and testicle nee of maternal toxicity. Available data also indicate age and period of administration. There have not bee e suggests that DBP does not cause genetic toxicity. Id skin contact. Repeated exposure may result in ng of the testicles and other structural malformations.
BUTOXYCARBONYLMETHYL BUTYL PHTHALATE &	orally or through a vein. Accumulation has not been of other phthalate esters, which, in susceptible species, o Acute toxicity: Animal testing shows that acute toxicity lack of co-ordination. DBP appears to have little poten exposure to DBP have been reported. Repeat dose toxicity: Animal testing shows repeat exp affected. Developmental toxicity: In animal testing, DBP resulter function that were not seen in parent animals. DBP ca that DBP causes birth defects at high doses and susce adequate tests conducted to evaluate the cancer-caus Available data indicate that phthalate esters are minim weight gain, liver enlargement and induction of liver er They may reduce male and female fertility and numbe The material may produce peroxisome proliferation. Pol	beserved in any organ. The profile of e can cause enlarged liver, toxicity to the of DBP is low. Signs of acute toxicity tial to irritate skin or eyes or to induce bosure to DBP caused enlarged liver and d in reduced weight in offspring and ne uses toxicity to the foetus in the abse eptibility varies with developmental st sing potential of DBP. Current evidence hally toxic by swallowing, inhalation ar toymes. They may also cause shrinki or of live births, according to animal te	nd excreted in urine as breakdown products if given ffects following exposure to DBP is similar to that of e foetus, birth defects, and damage to the testicles. include depression of activity, labored breathing and e sensitization. A few cases of sensitization after and peroxisome proliferation, The testicles were also halformations of the male genitalia and testicle nee of maternal toxicity. Available data also indicate age and period of administration. There have not bee e suggests that DBP does not cause genetic toxicity. Id skin contact. Repeated exposure may result in ng of the testicles and other structural malformations sting.
BUTOXYCARBONYLMETHYL BUTYL PHTHALATE & DIBUTYL PHTHALATE	orally or through a vein. Accumulation has not been of other phthalate esters, which, in susceptible species, of Acute toxicity: Animal testing shows that acute toxicity lack of co-ordination. DBP appears to have little poten exposure to DBP have been reported. Repeat dose toxicity: Animal testing shows repeat exp affected. Developmental toxicity: In animal testing, DBP resulted function that were not seen in parent animals. DBP ca that DBP causes birth defects at high doses and susce adequate tests conducted to evaluate the cancer-caus Available data indicate that phthalate esters are minim weight gain, liver enlargement and induction of liver er They may reduce male and female fertility and numbe The material may produce peroxisome proliferation. Per cells of animals, plants, fungi, and protozoa.	beserved in any organ. The profile of e can cause enlarged liver, toxicity to the of DBP is low. Signs of acute toxicity tial to irritate skin or eyes or to induce bosure to DBP caused enlarged liver a d in reduced weight in offspring and n uses toxicity to the foetus in the abse eptibility varies with developmental st sing potential of DBP. Current evidenc ally toxic by swallowing, inhalation ar nzymes. They may also cause shrinki r of live births, according to animal te eroxisomes are single, membrane lim	nd excreted in urine as breakdown products if given ffects following exposure to DBP is similar to that of e foetus, birth defects, and damage to the testicles. include depression of activity, labored breathing and e sensitization. A few cases of sensitization after and peroxisome proliferation, The testicles were also halformations of the male genitalia and testicle nee of maternal toxicity. Available data also indicate age and period of administration. There have not bee e suggests that DBP does not cause genetic toxicity d skin contact. Repeated exposure may result in ng of the testicles and other structural malformations sting.
BUTOXYCARBONYLMETHYL BUTYL PHTHALATE & DIBUTYL PHTHALATE Acute Toxicity	orally or through a vein. Accumulation has not been of other phthalate esters, which, in susceptible species, of Acute toxicity: Animal testing shows that acute toxicity lack of co-ordination. DBP appears to have little poten exposure to DBP have been reported. Repeat dose toxicity: Animal testing shows repeat exp affected. Developmental toxicity: In animal testing, DBP resulted function that were not seen in parent animals. DBP ca that DBP causes birth defects at high doses and suscar adequate tests conducted to evaluate the cancer-caus Available data indicate that phthalate esters are minim weight gain, liver enlargement and induction of liver er They may reduce male and female fertility and numbe The material may produce peroxisome proliferation. Pr cells of animals, plants, fungi, and protozoa.	beserved in any organ. The profile of e can cause enlarged liver, toxicity to the of DBP is low. Signs of acute toxicity tial to irritate skin or eyes or to induce besure to DBP caused enlarged liver and d in reduced weight in offspring and ne uses toxicity to the foetus in the abset eptibility varies with developmental st sing potential of DBP. Current evidence analy toxic by swallowing, inhalation and razymes. They may also cause shrinki r of live births, according to animal ter eroxisomes are single, membrane lime Carcinogenicity	nd excreted in urine as breakdown products if given ffects following exposure to DBP is similar to that of e foetus, birth defects, and damage to the testicles. include depression of activity, labored breathing and e sensitization. A few cases of sensitization after and peroxisome proliferation, The testicles were also halformations of the male genitalia and testicle nce of maternal toxicity. Available data also indicate age and period of administration. There have not be e suggests that DBP does not cause genetic toxicity ad skin contact. Repeated exposure may result in ing of the testicles and other structural malformations sting.
BUTOXYCARBONYLMETHYL BUTYL PHTHALATE & DIBUTYL PHTHALATE Acute Toxicity Skin Irritation/Corrosion	orally or through a vein. Accumulation has not been of other phthalate esters, which, in susceptible species, of Acute toxicity: Animal testing shows that acute toxicity lack of co-ordination. DBP appears to have little poten exposure to DBP have been reported. Repeat dose toxicity: Animal testing shows repeat exp affected. Developmental toxicity: In animal testing, DBP resulter function that were not seen in parent animals. DBP ca that DBP causes birth defects at high doses and susce adequate tests conducted to evaluate the cancer-caus Available data indicate that phthalate esters are minim weight gain, liver enlargement and induction of liver er They may reduce male and female fertility and numbe The material may produce peroxisome proliferation. Pr cells of animals, plants, fungi, and protozoa.	beserved in any organ. The profile of e can cause enlarged liver, toxicity to th of DBP is low. Signs of acute toxicity tial to irritate skin or eyes or to induce bosure to DBP caused enlarged liver a d in reduced weight in offspring and n uses toxicity to the foetus in the abse eptibility varies with developmental st sing potential of DBP. Current evidence hally toxic by swallowing, inhalation an azymes. They may also cause shrinki r of live births, according to animal te eroxisomes are single, membrane lim Carcinogenicity Reproductivity	nd excreted in urine as breakdown products if given ffects following exposure to DBP is similar to that of e foetus, birth defects, and damage to the testicles. include depression of activity, labored breathing and e sensitization. A few cases of sensitization after and peroxisome proliferation, The testicles were also nalformations of the male genitalia and testicle and periox of administration. There have not bec age and period of administration. There have not bec e suggests that DBP does not cause genetic toxicity ad skin contact. Repeated exposure may result in ng of the testicles and other structural malformations sting. ited organelles in the cytoplasm that are found in the

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

SECTION 12 Ecological information

oxicity					
	Endpoint	Test Duration (hr)	Species	Value	Source
Dentsply Visco-Gel Liquid	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
butoxycarbonylmethyl butyl phthalate	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
ethanol	EC50(ECx)	96h	Algae or other aquatic plants	<0.001mg/L	4
c in an or	EC50	72h	Algae or other aquatic plants	275mg/l	2

	LC50	96h	Fish	>100mg/l	2
	EC50	48h	Crustacea	>79mg/L	4
	EC50	96h	Algae or other aquatic plants	<0.001mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
	ErC50	72h	Algae or other aquatic plants	1.2mg/l	1
	BCF	1344h	Fish	3.1-21.2	7
	NOEC(ECx)	72h	Algae or other aquatic plants	0.5mg/l	1
dibutyl phthalate	EC50	72h	Algae or other aquatic plants	1.2mg/l	1
	LC50	96h	Fish	0.28-0.44mg/l	4
	EC50	48h	Crustacea	3.4mg/l	1
	EC50	96h	Algae or other aquatic plants	0.004-0.2mg/l	1
Legend:	V3.12 (QSAR) -		ed Substances - Ecotoxicological Information - Aq otox database - Aquatic Toxicity Data 5. ECETOC Bioconcentration Data 8. Vendor Data		

DO NOT discharge into sewer or waterways.

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

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
butoxycarbonylmethyl butyl phthalate	LOW (Half-life = 14 days)	LOW (Half-life = 3.07 days)
ethanol	LOW (Half-life = 2.17 days)	LOW (Half-life = 5.08 days)
dibutyl phthalate	LOW (Half-life = 23 days)	LOW (Half-life = 3.08 days)

Bioaccumulative potential

Ingredient	Bioaccumulation
butoxycarbonylmethyl butyl phthalate	MEDIUM (LogKOW = 4.1506)
ethanol	LOW (LogKOW = -0.31)
dibutyl phthalate	LOW (BCF = 176)

Mobility in soil

Ingredient	Mobility
butoxycarbonylmethyl butyl phthalate	LOW (KOC = 14830)
ethanol	HIGH (KOC = 1)
dibutyl phthalate	LOW (KOC = 1460)

SECTION 13 Disposal considerations

Waste treatment methods		
Product / Packaging disposal	 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. 	

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
butoxycarbonylmethyl butyl phthalate	Not Available

Product name	Group
ethanol	Not Available
dibutyl phthalate	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
butoxycarbonylmethyl butyl phthalate	Not Available
ethanol	Not Available
dibutyl phthalate	Not Available

SECTION 15 Regulatory information

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

butoxycarbonylmethyl butyl phthalate is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

ethanol is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

dibutyl phthalate 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 10 / Appendix C Australian Inventory of Industrial Chemicals (AIIC)

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	No (butoxycarbonylmethyl butyl phthalate)	
Canada - NDSL	No (ethanol; dibutyl phthalate)	
China - IECSC	No (butoxycarbonylmethyl butyl phthalate)	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	No (butoxycarbonylmethyl butyl phthalate)	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (butoxycarbonylmethyl butyl phthalate)	
Vietnam - NCI	No (butoxycarbonylmethyl butyl phthalate)	
Russia - FBEPH	No (butoxycarbonylmethyl butyl 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. These ingredients may be exempt or will require registration.	

SECTION 16 Other information

Revision Date	20/08/2021
Initial Date	20/08/2008

SDS Version Summary

Version	Date of Update	Sections Updated
4.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
4.1.2.1	26/04/2021	Regulation Change
4.1.3.1	03/05/2021	Regulation Change
4.1.4.1	06/05/2021	Regulation Change
4.1.5.1	10/05/2021	Regulation Change
4.1.5.2	30/05/2021	Template Change
4.1.5.3	04/06/2021	Template Change
4.1.5.4	05/06/2021	Template Change
4.1.6.4	07/06/2021	Regulation Change
4.1.6.5	09/06/2021	Template Change
4.1.6.6	11/06/2021	Template Change
4.1.6.7	15/06/2021	Template Change

Version	Date of Update	Sections Updated
4.1.7.7	17/06/2021	Regulation Change
4.1.8.7	21/06/2021	Regulation Change
4.1.8.8	05/07/2021	Template Change
4.1.9.8	14/07/2021	Regulation Change
4.1.10.8	19/07/2021	Regulation Change
4.1.10.9	01/08/2021	Template Change
4.1.11.9	02/08/2021	Regulation Change
4.1.12.9	05/08/2021	Regulation Change
4.1.13.9	09/08/2021	Regulation Change
5.1.13.9	20/08/2021	Classification change due to full database hazard calculation/update.
5.1.14.9	23/08/2021	Regulation Change
5.1.15.9	26/08/2021	Regulation Change
5.1.15.10	29/08/2021	Template Change
5.1.16.10	30/08/2021	Regulation Change
5.1.17.10	06/09/2021	Regulation Change
5.1.17.11	16/09/2021	Template Change
5.1.18.11	16/09/2021	Regulation Change
5.1.19.11	23/09/2021	Regulation Change
5.1.20.11	27/09/2021	Regulation Change
5.1.20.12	30/09/2021	Template 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 This document is copyright.

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