

BT Flange

BuildGreen Australia Pty Ltd

Chemwatch: 5694-56 Version No: 2.1

Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements

Chemwatch Hazard Alert Code: 3

Issue Date: **14/08/2024** Print Date: **16/08/2024** S.GHS.AUS.EN.E

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

Product Identifier	
Product name	BT Flange
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	Sealants and adhesives/Elastic products Use according to manufacturer's directions.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	BuildGreen Australia Pty Ltd	
Address	Address 88 Sutton Street North Melbourne VIC 3051 Australia	
Telephone	Telephone 1300 664 276	
Fax	Not Available	
Website	Buildgreen.au	
Email	sales@buildgreen.au	

Emergency telephone number

Association / Organisation	BuildGreen Pty Ltd	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	1300 664 276 (Mon - Fri 8:00am – 4:00pm)	+61 1800 951 288
Other emergency telephone numbers	Not Available	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

Poisons Schedule	chedule Not Applicable	
Classification ^[1]	Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 1, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, Germ Cell Mutagenicity Category 2, Carcinogenicity Category 1A	
Legend:	1. Classified by Chemwatch; 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)

H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.

Precautionary statement(s) Prevention

BT Flange

P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves, protective clothing, eye protection and face protection.	
P261	Avoid breathing dust/fumes.	
P264	Wash all exposed external body areas thoroughly after handling.	
utionary statement(s) Re	sponse	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing	
P308+P313	IF exposed or concerned: Get medical advice/ attention.	
P310	Immediately call a POISON CENTER/doctor/physician/first aider.	
P302+P352	IF ON SKIN: Wash with plenty of water and soap.	
	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P304+P340		
P304+P340 P332+P313	If skin irritation occurs: Get medical advice/attention.	

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.
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SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
471-34-1	40-50	calcium carbonate
9003-27-4	25-30	isobutylene homopolymer
9010-98-4	15-20	chloroprene homopolymer
13463-67-7	<10	titanium dioxide
Legend:	Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available	

SECTION 4 First aid measures

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

- 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

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 courses. Use water delivered as a fine spray to control fire and cool adjacent 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	 Equipment should be thoroughly decontaminated after use. Combustible solid which burns but propagates flame with difficulty; it is estimated that most organic dusts are combustible (circa 70%) according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions. Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions). Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignitoni, i.e. flame or spark, will cause fire or explosion. Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust (420 micron or less) may burn rapidly and fiercely if ignited - particles exceeding this limit will generally not form flammable dust clouds; once initiated, however, larger particles up to 1400 microns diameter will contribute to the propagation of an explosive limit (LEL) and upper explosive limit (UEL) are applicable to dust clouds but only the LEL is of practical use - this is because of the inherent difficulty of achieving homogeneous dust clouds at high temperatures (for dusts the LEL is often called the "Minimum Explosible Concentration", MEC). When processed with flammable liquids/vapors/mists.igintable (hybrid) mixtures may be formed with combustible dusts. Ignitable mixtures will increase the zeto levelosion pressure rise and the Minimum Ignition Energy (the minimum amount of energy required to ignite dust clouds - MIE) will be lower than the pure dust in air mixture. The Lower Explosive Limit (LEL) of the vapour/dust mixtures as ubsequent pressure rise of explosive force capable of damaging plant and buildings and injuring people.
	Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) hydrogen chloride phosgene metal oxides other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes. Heating calcium carbonate at high temperatures(825 C.) causes decomposition, releases carbon dioxide gas and leaves a residue of alkaline lime

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	 Clean up all spills immediately. Avoid breathing dust and contact with skin and eyes. Wear protective clothing, gloves, safety glasses and dust respirator. Use dry clean up procedures and avoid generating dust. Sweep up, shovel up or Vacuum up (consider explosion-proof machines designed to be grounded during storage and use). Place spilled material in clean, dry, sealable, labelled container.
Major Spills	 Moderate hazard. CAUTION: Advise personnel in area. Alert Emergency Services and tell them location and nature of hazard. Control personal contact by wearing protective clothing. Prevent, by any means available, spillage from entering drains or water courses. Recover product wherever possible. IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. IF WET: Vacuum/shovel up and place in labelled containers for disposal. ALWAYS: Wash area down with large amounts of water 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	 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 est, 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. Launder contaminated clothing before re-use. 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. Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions) Minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame. Establish good housekeeping practices. Be continuous suction at points of dust generation to capture and minimise the accumulation of dusts. Particular attention should be given to overhead and hidden hoirbortal surfaces to minimise the probability of a "secondary" explosion. According to NFPA Standard 654, dust layers 1/32 in (0.8 mm) thick can be sufficient to warrant immediate cleaning of the area. Do not use air hoses for cleaning. Minimise dy sweeping to avoid generation of dust clouds. Vacuum dust-accumulating surfaces and remove to a chemical disposal area. Vacuums with explosio
Other information	 Store in original containers. Keep containers securely sealed. Store in a cool, dry area protected from environmental extremes. 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. For major quantities: Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams). Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities.

Conditions for safe storage, including any incompatibilities

Suitable container	 Polyethylene or polypropylene container. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	 Calcium carbonate: is incompatible with acids, ammonium salts, fluorine, germanium, lead diacetate, magnesium, mercurous chloride, silicon, silver nitrate, titanium. Contact with acid generates carbon dioxide gas, which may pressurise and then rupture closed containers Titanium dioxide reacts with strong acids, strong oxidisers reacts violently with aluminium, calcium, hydrazine, lithium (at around 200 deg C.), magnesium, potassium, sodium, zinc, especially at elevated temperatures - these reactions involves reduction of the oxide and are accompanied by incandescence dust or powders can ignite and then explode in a carbon dioxide atmosphere Avoid strong acids, acid chlorides, acid anhydrides and chloroformates. 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	calcium carbonate	Calcium carbonate	10 mg/m3	Not Available	Not Available		is for inhalable dust containing no < 1% crystalline silica.
Australia Exposure Standards	titanium dioxide	Titanium dioxide	10 mg/m3	Not Available	Not Available	 (a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica. 	
Emergency Limits							
Ingredient	TEEL-1		TEEL	TEEL-2		TEEL-	3
calcium carbonate	45 mg/m3		210 m	210 mg/m3		1,300	mg/m3

Ingredient	TEEL-1	TEEL-2		TEEL-3	
titanium dioxide	30 mg/m3	330 mg/m3		2,000 mg/m3	
Ingredient	Original IDLH		Revised IDLH		
calcium carbonate	Not Available		Not Available		
isobutylene homopolymer	Not Available		Not Available		
chloroprene homopolymer	Not Available	Not Available		Not Available	
titanium dioxide	5,000 mg/m3		Not Available		

Exposure controls

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measures, such as personal protective equipment CORECTION CONCENTION CONCENTICUTURE CONCENTINTE CONCENTINO CONCENTICUTURE CONCENTICUTURE CONCENTICUTURE CONCE		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 property. 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. I. Local exhaust ventilation sine required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction. It is patie of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be designed to prevent accumulation and recirculation of particulates in the workplace. It in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be designed to prevent accumulation and recirculation and grounding. Suld-up of electrostatic charge on the dust particle, may be prevented by bonding and grounding. Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as explosion venting. Type of Contaminant: Air Speed: direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion). 2.5-10 m/s (500-5000 ft/min))				
Eye and face protection 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 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 readuly 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 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 throroughly. Application of a on-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: ifrequency and dried throroughly. Application of a non-perfumed moisturiser is recommended. glove thickness and	measures, such as personal					
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		The selection of suitable gloves does not only depend on the manufacturer. Where the chemical is a preparation of severa advance and has therefore to be checked prior to the applic. The exact break through time for substances has to be obta when making a final choice. Personal hygiene is a key element of effective hand care. G washed and dried thoroughly. Application of a non-perfumed Suitability and durability of glove type is dependent on usage frequency and duration of contact, ehemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN When prolonged or frequently repeated contact may occur 240 minutes according to EN 374, AS/NZS 2161.10.1 or nat When only brief contact is expected, a glove with a protect	al substances, the resistance of the glove material car ation. ined from the manufacturer of the protective gloves ar loves must only be worn on clean hands. After using g i moisturiser is recommended. e. Important factors in the selection of gloves include: 374, US F739, AS/NZS 2161.1 or national equivalent , a glove with a protection class of 5 or higher (breakth ional equivalent) is recommended. ion class of 3 or higher (breakthrough time greater tha	n not be calculated in nd has to be observed gloves, hands should be).). nrough time greater than		

	 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 model. 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 there a high degree of manual desterity 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 moisturisre is recommended. Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present. polychloroprene. h
	Gloves should be examined for wear and/ or degradation constantly.
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-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A P1 Air-line*	-	A PAPR-P1 -
up to 50 x ES	Air-line**	A P2	A PAPR-P2
up to 100 x ES	-	A P3	-
		Air-line*	-
100+ x ES	-	Air-line**	A PAPR-P3

* - Negative pressure demand ** - Continuous flow

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)

· Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.

The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).

Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.

Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.

Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

· Use approved positive flow mask if significant quantities of dust becomes airborne.

Try to avoid creating dust conditions.

Where significant concentrations of the material are likely to enter the breathing zone, a Class P3 respirator may be required.

Class P3 particulate filters are used for protection against highly toxic or highly irritant particulates.

Filtration rate: Filters at least 99.95% of airborne particles

Suitable for:

· Relatively small particles generated by mechanical processes eg. grinding, cutting, sanding, drilling, sawing.

· Sub-micron thermally generated particles e.g. welding fumes, fertilizer and bushfire smoke.

· Biologically active airborne particles under specified infection control applications e.g. viruses, bacteria, COVID-19, SARS

· Highly toxic particles e.g. Organophosphate Insecticides, Radionuclides, Asbestos

Note: P3 Rating can only be achieved when used with a Full Face Respirator or Powered Air-Purifying Respirator (PAPR). If used with any other respirator, it will only provide filtration protection up to a P2 rating.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Grey colour divided solid; does not mix with water.		
Physical state	Divided Solid	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 (°C)	Not Available
Melting point / freezing point (°C)	-30 - 90	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
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 (1%)	Not Applicable

SECTION 10 Stability and reactivity

Vapour density (Air = 1)

Not Available

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

VOC g/L

Not Available

SECTION 11 Toxicological information

Information on toxicological effects

Inheliation of vagous may cause dreadings. The body's response to such initiation can cause further lung damage. Inheliation of vagous may cause dreadings. This may be accompanied by sleppiness, reduced alerness, loss of reflexes, lack of co-ordination, and verigo. Persons with inpaided respiratory function, airway diseases and conditions such as emphysema or chronic bronchilis, may incur further disability if accessive concentrations of particulate are inhaled. Inheliation of vagous may cause does not necessive stress mass accurated or if kidney damage has been sustained, proper screenings should be conduced on individuals who may be exposed to further risk if handing and use of the material result in excessive exposures. Net normality at atacrd due to non-valien nature of product Integration The material mass NOT been classified by EC Directives or other classified and the conclustor of corroborating animal of human evidence. Skin Contact is not though to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lessinos or abrasions. Open cuts, abraded or initiated sin should not be exposed to his material Ervity in the block effects, future, data classified under EC Directives); the material may still produce health damage is subhappy protected. Even to the use of the material and ensure that any extern along are is a classified under ECD incretives); the material may stern and though is subhance for over a long period (e.g. in an occupational setting) may increases the risk of concer. Long-term openue to regratory (mark may require along anise (as use on concern full health effects (as classified under ECD incretives); the material mass essement. Even to the substance may	Information on toxicological ef	tects		
of corroborating animal or human evidence. of corroborating animal or human evidence. The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dematitis which is characterised by redness, swelling and bilstering. Skin Contact Skin contact is not though to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abraded under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. Eye If applied to the eyes, this material causes severe eye damage. Strong evidence exists that insultation emay cause inversible mutations (through not tehnal) and related whole-body problems. Strong evidence exists that this substance for over a long period (e.g. in an occupational setting) may increase the risk of cancer. Long-term exposure to respiratory initiants may result in ainvays diffeese. BT Flange Toxicity Irrelation (rat) LSO: >2000 mg/kg ^[1] Eatient (rat) LDSO: >2000 mg/kg ^[1] Eye (rabbit): 0.75 mg/24h - SEVERE Inhalation (Rat) LCSO: >3 mg/4h ^[1] Eye: no adverse effect observed (not irritating) ^[1] Oral (Rat) LDSO: >2000 mg/kg ^[1] Eye: no adverse effect observed (not irritating) ^[1] Oral (rat) LDSO: >2000 mg/kg ^[1] Eye: no adverse effect observed (not irritating) ^[1] Isobustr	Inhaled	Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.		
skin contact am cause contact dermatitis which is characterised by redness, swelling and bitstering. Skin contact in through wounds, lesions or abrasions. Open cuts, abraded or irritated skin should not be exposed to this material may produce systemic injury with harmful effects. Examine the issin prior to the use of the material and ensure that any extential damage is suitably protected. Erry If applied to the eyes, this material causes severe eye damage. Studies show that inhaling this substance for over a long period (e.g. in an occupational setting) may increase the risk of cancer. Long-term exposure to respiratory irritants may result in airway disease, involving difficulty breathing and related whole-body problems. Studies show that inhaling this substance for over a long period (e.g. in an occupational setting) may increase the risk of cancer. Long-term exposure to respiratory irritants may result in airway disease, involving difficulty breathing and related whole-body problems. Studies show that inhaling this substance for over a long period (e.g. in an occupational setting) may increase the risk of cancer. Long-term exposure to respiratory irritants may result in airway disease, involving difficulty preathed whole-body problems. Studies show that inhaling this substance for over a long period (e.g. in an occupational setting) may increase the risk of cancer. Long-term exposure. Studies about the inhaling this substance for over a long period (e.g. in an occupational setting) may increase the risk of cancer.	Ingestion	•	or other classification systems as "harmful by ingestion". This is because of the lack	
Chronia Studies show that inhaling this substance for over a long period (e.g. in an occupational setting) may increase the risk of cancer. Long-term exposure to respiratory initiants may result in airways disease, involving difficulty breathing and related whole-body problems. Strong evidence exists that this substance may cause irreversible mutations (though not lethal) even following a single exposure. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment. BT Flange TOXICITY IRRITATION dermal (rat) LD50: >2000 mg/kg ^[1] Eye (rabbit): 0.75 mg/24h - SEVERE Inhalation (Rat) LC50: >3 mg/4h ^[1] Eye: no adverse effect observed (not irritating) ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] Skin: no adverse effect observed (not irritating) ^[1] isobutylene homopolymer TOXICITY IRRITATION dermal (rat) LD50: >2000 mg/kg ^[1] Eye: no adverse effect observed (not irritating) ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] Skin: no adverse effect observed (not irritating) ^[1] oral (Rat) LD50: >2000 mg/kg ^[1] Eye: no adverse effect observed (not irritating) ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] Eye: no adverse effect observed (not irritating) ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] Eye: no adverse effect observed (not irritating) ^[1] Oral	Skin Contact	can cause contact dermatitis which is characterised by redness, swelling and blistering. Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the		
Chronic Long-term exposure to respiratory initiants may result in airways disease, involving difficulty breathing and related whole-body problems. Strong evidence exists that this substance may cause inversible mutations (though not lethal) even following a single exposure. There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment. BT Flange TOXICITY IRRITATION dermal (rat) LD50: >2000 mg/kg ^[1] Eye (rabbit): 0.75 mg/24h - SEVERE inhalation (Rat) LC50: >3 mg/4h ^[1] Eye (rabbit): 0.75 mg/24h - SEVERE inhalation (Rat) LC50: >3 mg/4h ^[1] Eye (nabbit): 500 mg/24h - SEVERE inhalation (Rat) LD50: >2000 mg/kg ^[1] Skin (rabbit): 500 mg/24h - SEVERE inhalation (Rat) LD50: >2000 mg/kg ^[1] Skin (rabbit): 500 mg/24h - SEVERE inhalation (Rat) LD50: >2000 mg/kg ^[1] Skin (rabbit): 500 mg/24h - SEVERE inhalation (Rat) LD50: >2000 mg/kg ^[1] Skin (rabbit): 500 mg/24h - SEVERE isobutylene homopolymer TOXICITY IRRITATION dermal (rat) LD50: >2000 mg/kg ^[1] Skin (rabbit): 500 mg/24h - SEVERE isobutylene homopolymer TOXICITY IRRITATION dermal (rat) LD50: >2000 mg/kg ^[1] Skin: no adverse effect observed (not irritating) ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] Eye: no adverse effect observed (not irritating) ^[1] <t< th=""><th>Eye</th><th>If applied to the eyes, this material causes severe eye of</th><th>lamage.</th></t<>	Eye	If applied to the eyes, this material causes severe eye of	lamage.	
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Oral (Rat) LD50: >2000 mg/kg ^[1] Skin: no adverse effect observed (not irritating) ^[1] TOXICITY IRRITATION		ΤΟΧΙΟΙΤΥ	IRRITATION	
chloroprene homopolymer	isobutylene homopolymer	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]	
chloroprene homopolymer		Oral (Rat) LD50: >2000 mg/kg ^[1]	Skin: no adverse effect observed (not irritating) $^{\left[1 \right]}$	
Chloroprene homopolymer Oral (Rat) LD50: >40000 mg/kg ^[2] Not Available		τοχιςιτγ	IRRITATION	
	chloroprene homopolymer	Oral (Rat) LD50: >40000 mg/kg ^[2]	Not Available	

	TOXICITY	IRRITATION	
	dermal (hamster) LD50: >=10000 mg/kg ^[2]	Eye: no adverse	e effect observed (not irritating) ^[1]
titanium dioxide	Inhalation (Rat) LC50: >2.28 mg/l4h ^[1]	Skin (human): (0.3 mg /3D (int)-mild *
	Oral (Rat) LD50: >=2000 mg/kg ^[1]	Skin: no advers	e effect observed (not irritating) ^[1]
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwis specified data extracted from RTECS - Register of Toxic Effect of chemical Substances		
CALCIUM CARBONATE	No evidence of carcinogenic properties. No evidence of mutagenic or teratogenic effects. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.		
CHLOROPRENE HOMOPOLYMER	The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to human Evidence of carcinogenicity may be inadequate or		
TITANIUM DIOXIDE	* IUCLID Laboratory (in vitro) and animal studies show, exposure to the material may result in a possible risk of irreversible effects, with the possibility of producing mutation. Exposure to titanium dioxide is via inhalation, swallowing or skin contact. When inhaled, it may deposit in lung tissue and lymph nodes causing dysfunction of the lungs and immune system. Absorption by the stomach and intestines depends on the size of the particle. It penetrated only the outermost layer of the skin, suggesting that healthy skin may be an effective barrier. There is no substantive data on genetic damage, though cases have been reported in experimental animals. Studies have differing conclusions on its cancer-causing potential. The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.		
	WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.		
CALCIUM CARBONATE & TITANIUM DIOXIDE	Asthma-like symptoms may continue for months or condition known as reactive airways dysfunction sy compound. Main criteria for diagnosing RADS inclu of persistent asthma-like symptoms within minutes include a reversible airflow pattern on lung function and the lack of minimal lymphocytic inflammation, v disorder with rates related to the concentration of a is a disorder that occurs as a result of exposure du reversible after exposure ceases. The disorder is c The material may cause skin irritation after prolong production of vesicles, scaling and thickening of the	Indrome (RADS) which can occur after de the absence of previous airways of to hours of a documented exposure to tests, moderate to severe bronchial l without eosinophilia. RADS (or asthm and duration of exposure to the irritatin e to high concentrations of irritating su haracterized by difficulty breathing, co led or repeated exposure and may pro-	er exposure to high levels of highly irritating disease in a non-atopic individual, with sudden or o the irritant. Other criteria for diagnosis of RADS nyperreactivity on methacholine challenge testing a) following an irritating inhalation is an infrequen ig substance. On the other hand, industrial bronc ubstance (often particles) and is completely pugh and mucus production.
ISOBUTYLENE HOMOPOLYMER & TITANIUM DIOXIDE	No significant acute toxicological data identified in literature search.		
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	 ✓ 	Reproductivity	×
Serious Eye Damage/Irritation	*	STOT - Single Exposure	¥
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	✓	Aspiration Hazard	×

SECTION 12 Ecological information

	Endpoint	Test Duration (hr)	Species	Value	Source
BT Flange	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	>14mg/l	2
calcium carbonate	LC50	96h	Fish	>165200mg/L	4
	NOEC(ECx)	1h	Fish	4-320mg/l	4
:	Endpoint	Test Duration (hr)	Species	Value	Source
isobutylene homopolymer	LC50	96h	Fish	>5600mg/L	4
chloroprene homopolymer	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
titanium dioxide	Endpoint	Test Duration (hr)	Species	Value	Source
	BCF	1008h	Fish	<1.1-9.6	7
	EC50	72h	Algae or other aquatic plants	3.75- 7.58mg/l	4
	EC50	48h	Crustacea	1.9mg/l	2

LC50	96h	Fish	1.85- 3.06mg/l	4
NOEC(ECx)	672h	Fish	>=0.004mg/L	2
EC50	96h	Algae or other aquatic plants	179.05mg/l	2
Ecotox database		ered Substances - Ecotoxicological Information Izard Assessment Data 6. NITE (Japan) - Bioco		

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
isobutylene homopolymer	LOW	LOW
chloroprene homopolymer	HIGH	HIGH
titanium dioxide	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
isobutylene homopolymer	LOW (LogKOW = 2.2256)
chloroprene homopolymer	LOW (LogKOW = 2.5253)
titanium dioxide	LOW (BCF = 10)

Mobility in soil

Ingredient	Mobility
isobutylene homopolymer	LOW (Log KOC = 35.04)
chloroprene homopolymer	LOW (Log KOC = 67.7)
titanium dioxide	LOW (Log KOC = 23.74)

SECTION 13 Disposal considerations

Vaste treatment methods Product / Packaging disposal	 Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. Otherwise: If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. Where possible retain label warnings and SDS and observe all notices pertaining to the product. Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: Reduction Reuse Recycling Disposal (if all else fails) This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. In most instances the supplier of the material should be consulted. D ON OT allow wash water from cleaning or process equipment to enter drains.
	 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.

SECTION 14 Transport information

Labels Required Marine Pollutant NO

HAZCHEM	Not Applicable
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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

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
calcium carbonate	Not Available
isobutylene homopolymer	Not Available
chloroprene homopolymer	Not Available
titanium dioxide	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
calcium carbonate	Not Available
isobutylene homopolymer	Not Available
chloroprene homopolymer	Not Available
titanium dioxide	Not Available

SECTION 15 Regulatory information

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

calcium carbonate is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

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

isobutylene homopolymer is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

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

titanium dioxide is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

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

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

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

Additional Regulatory Information

Not Applicable

National Inventory Status

national involtiony otatuo	
National Inventory	Status
Australia - AIIC / Australia Non- Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (isobutylene homopolymer; chloroprene homopolymer)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	No (chloroprene homopolymer)
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	14/08/2024
Initial Date	14/08/2024

SDS Version Summary

Version	Date of Update	Sections Updated
2.1	14/08/2024	Toxicological information - Acute Health (eye), Toxicological information - Acute Health (inhaled), Toxicological information - Acute Health (skin), Toxicological information - Acute Health (swallowed), First Aid measures - Advice to Doctor, Physical and chemical properties - Appearance, Toxicological information - Chronic Health, Hazards identification - Classification, Disposal considerations - Disposal, Exposure controls / personal protection - Engineering Control, Ecological Information - Environmental, Firefighting measures - Fire Fighter (fire fighting), Firefighting measures - Fire Fighter (fire fighting), Firefighting measures - Fire Fighter (fire incompatibility), First Aid measures - First Aid (eye), First Aid measures - First Aid (inhaled), First Aid measures - First Aid (swallowed), Handling and storage - Handling Procedure, Stability and reactivity - Instability Condition, Exposure controls / personal protection - Personal Protection (other), Exposure controls / personal protection - Personal Protection (eye), Exposure controls / personal protection - Personal Protection - Personal Protection (eye), Exposure controls / personal protection - Personal Protect

Version No: 2.1

Version	Date of Update	Sections Updated
		Handling and storage - Storage (storage incompatibility), Handling and storage - Storage (storage requirement), Handling and storage - Storage (suitable container), Transport information - Transport

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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