For dental use only

Dentsply Sirona Pty Ltd

Chemwatch: **4993-58** Version No: **4.1.1.1**

Safety Data Sheet according to WHS and ADG requirements

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

Product Identifier

Product name	Dentsply Regisil - Regisil 2X - Regisil PB - Regisil Rigid	
Synonyms	inyl Polysiloxane Bite Registration Material, Part number: 619100 - 619999	
Other means of identification	Not Available	
Relevant identified uses of the substance or mixture and uses advised against		

Details of the supplier of the safety data sheet

Relevant identified uses

Registered company name	Dentsply Sirona Pty Ltd	
Address	21 Gilby Road Mount Waverley VIC 3149 Australia	
Telephone	1300 55 29 29	
Fax	300 55 31 31	
Website	www.dentsply.com.au	
Email	clientservices@dentsplysirona.com	

Emergency telephone number

Association / Organisation	Not Available
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	
Flammability	1 📕		
Toxicity	1		0 = Minimum
Body Contact	2	1	1 = Low
Reactivity	1		3 = High
Chronic	3		4 = Extreme

Poisons Schedule	Not Applicable	
Classification ^[1]	Eye Irritation Category 2A, Carcinogenicity Category 1A, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation)	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI	

Label elements

Hazard pictogram(s)		
0.0111		
SIGNAL WORD	DANGER	
Hazard statement(s)		
H319	Causes serious eye irritation.	
H350	May cause cancer.	
H335	May cause respiratory irritation.	

Precautionary statement(s) Prevention

P201

Chemwatch Hazard Alert Code: 3 Issue Date: 27/06/2017 Print Date: 02/01/2018 S.GHS.AUS.EN

P271	Use only outdoors or in a well-ventilated area.	
P281	Use personal protective equipment as required.	
P261	Avoid breathing mist/vapours/spray.	

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.	
P312	Call a POISON CENTER or doctor/physician if you feel unwell.	
P337+P313	If eye irritation persists: 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 in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
68083-19-2	30-60	dimethylsiloxane, vinyl-terminated
7778-18-9	5-30	calcium sulfate
7631-86-9	5-30	silica amorphous
14464-46-1	5-30	cristobalite
68037-59-2	5-15	dimethylsiloxane, methylhydrogen-
68611-44-9	<10	silica amorphous, fumed
13463-67-7	<5	titanium dioxide
68515-40-2	<5	benzyl-C7-C8-alkyl phthalate
Not Available	<5	organo platinum complex
39277-28-6	<2	ar-tosylamide/ formaldehyde/ melamine polymer
12769-96-9	<2	C.I. Pigment Violet 15

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 or hair contact occurs: Immediately flush body and clothes with large amounts of water, using safety shower if available. Quickly remove all contaminated clothing, including footwear. Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. Transport to hospital, or doctor.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

Special hazards arising from the substrate or mixture

Fire Incompatibility	• Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
Advice for firefighters	
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. 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.
Fire/Explosion Hazard	 High temperature decomposition products include silicon dioxide, small amounts of formaldehyde, formic acid, acetic acid and traces of silicon polymers. These gases may ignite and, depending on circumstances, may cause the resin/polymer to ignite. An outer skin of silica may also form. Extinguishing of fire, beneath the skin, may be difficult. 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). Combustion products include: , carbon dioxide (CO2) , metal oxide (SiO2) , metal oxides , other pyrolysis products typical of burning organic material. May emit corrosive fumes.
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

Minor Spills	 Slippery when spilt. 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.
Major Spills	 Slippery when spilt. Minor hazard. Clear area of personnel. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment as required.

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.
Other information	 Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. DO NOT store above 60 deg. C.
Conditions for safe storage,	including any incompatibilities
Suitable container	 Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
	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 sulfate	Calcium sulphate	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	silica amorphous	Fumed silica (respirable dust)	2 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	silica amorphous	Fumed silica (respirable dust)	2 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	silica amorphous	Diatomaceous earth (uncalcined)	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	silica amorphous	Diatomaceous earth (uncalcined)	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	silica amorphous	Silica gel	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	silica amorphous	Silica, fused	Not Available	Not Available	Not Available	Not Available
Australia Exposure Standards	silica amorphous	Precipitated silica	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	silica amorphous	Precipitated silica	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	silica amorphous	Silica gel	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	cristobalite	Cristobalite (respirable dust)	0.1 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	cristobalite	Cristobalite (respirable dust)	0.1 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	titanium dioxide	Titanium dioxide	10 mg/m3	Not Available	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
dimethylsiloxane, vinyl-terminated	Poly(dimethylsiloxane), vinyl dimethylsiloxy terminated	48 mg/m3	530 mg/m3	3,200 mg/m3
calcium sulfate	Calcium(II) sulfate dihydrate (1:1:2)	30 mg/m3	330 mg/m3	2,000 mg/m3
calcium sulfate	Calcium sulfate anhydrous; (Drierite; Gypsum; Plaster of Paris)	30 mg/m3	330 mg/m3	2,000 mg/m3
silica amorphous	Silica gel, amorphous synthetic	18 mg/m3	200 mg/m3	1,200 mg/m3
silica amorphous	Silica, amorphous fumed	18 mg/m3	100 mg/m3	630 mg/m3
silica amorphous	Siloxanes and silicones, dimethyl, reaction products with silica; (Hydrophobic silicon dioxide, amorphous)	120 mg/m3	1,300 mg/m3	7,900 mg/m3
silica amorphous	Silica, amorphous fume	45 mg/m3	500 mg/m3	3,000 mg/m3
silica amorphous	Silica amorphous hydrated	18 mg/m3	220 mg/m3	1,300 mg/m3
cristobalite	Cristobalite	0.075 mg/m3	33 mg/m3	200 mg/m3
dimethylsiloxane, methylhydrogen-	Methylhydrosiloxane (3-4%) + dimethylsiloxane (96-97%) copolymer	30 mg/m3	330 mg/m3	2,000 mg/m3
silica amorphous, fumed	Silica, amorphous fumed	18 mg/m3	100 mg/m3	630 mg/m3
titanium dioxide	Titanium oxide; (Titanium dioxide)	30 mg/m3	330 mg/m3	2,000 mg/m3

Ingredient	Original IDLH	Revised IDLH
dimethylsiloxane, vinyl-terminated	Not Available	Not Available
calcium sulfate	Not Available	Not Available
silica amorphous	3000 mg/m3	Not Available
cristobalite	25 mg/m3	Not Available
dimethylsiloxane, methylhydrogen-	Not Available	Not Available
silica amorphous, fumed	3000 mg/m3	Not Available
titanium dioxide	5000 mg/m3	Not Available
benzyl-C7-C8-alkyl phthalate	Not Available	Not Available
organo platinum complex	Not Available	Not Available
ar-tosylamide/ formaldehyde/ melamine polymer	Not Available	Not Available
C.I. Pigment Violet 15	Not Available	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.

Personal protection	
Eye and face protection	 Chemical goggles. Full face shield may be required for supplementary but never for primary protection of eyes. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.
Skin protection	See Hand protection below
Hands/feet protection	Wear protective gloves, e.g. PVC. Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber [Latex or rubber gloves may inhibit set.
Body protection	See Other protection below
Other protection	 Overalls. P.V.C. apron. Barrier cream.
Thermal hazards	Not Available

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)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Various coloured pastes with faint sweet odour; does not mix with water		
Physical state	Non Slump Paste	Relative density (Water = 1)	1.2 (1.6 for PB & Rigid)
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	>200	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	>213 (cc)	Taste	Not Available
Evaporation rate	<1	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 Applicable	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Applicable	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. Presence of elevated temperatures.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7

Hazardous decomposition products

SECTION 11 TOXICOLOGICAL INFORMATION

See section 5

Information on toxicological effects

Inhaled	Not normally a hazard due to non-volatile nature of product The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.			
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.			
Skin Contact	There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. Excessive use or prolonged contact may lead to defatting, drying and irritation of sensitive skin			
Eye	There is some evidence to suggest that this material can cause e	eye irritation and damage in some persons.		
Chronic	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Some evidence exists that this material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects. Studies show that inhaling this substance for over a long period (e.g. in an occupational setting) may increase the risk of cancer.			
Denter la Beniella BeniellaV	ΤΟΧΙCΙΤΥ	IRRITATION		
Dentsply Regisil - Regisil 2X - Regisil PB - Regisil Rigid	Oral (Rat) LD50: >2000 mg/kg ^[2]	Not Available		
dimethylsiloxane. vinyl-	TOXICITY	IRRITATION		
terminated	Not Available	Not Available		
	ΤΟΧΙCITY	IRRITATION		
calcium sulfate	Oral (rat) LD50: >1581 mg/kg ^[1]	Not Available		
silica amorphous		Skin (robbit): non initialing *		
	Oral (rat) LD50: 3160 mg/kg ³			
aniata halita	TOXICITY	IRRITATION		
cristobalite	Not Available	Not Available		
dimethylsiloxane.	ТОХІСІТҮ	IRRITATION		
methylhydrogen-	Not Available	Not Available		
silica amorphous, fumed	ΤΟΧΙΟΙΤΥ	IRRITATION		
	Oral (rat) LD50: >5000 mg/kg ^[2]	Not Available		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
titanium dioxide	Inhalation (rat) LC50: >2.28 mg/l4 h ^[1]	Skin (human): 0.3 mg /3D (int)-mild *		
	Oral (rat) LD50: >2000 mg/kg ^[1]			
	ΤΟΧΙΟΙΤΥ	IRRITATION		
benzyl-C7-C8-alkyl phthalate	Dermal (rabbit) LD50: >7940 mg/kg ^[2]	Eye (rabbit): 0.0/110.0 *		
	Oral (rat) LD50: >15800 mg/kg ^[2]	Skin (rabbit): 0.5/8.0 * mild		
ar taculamida/formaldahuda/	ΤΟΧΙΟΙΤΥ	IRRITATION		
melamine polymer	Not Available	Not Available		
C.I. Piament Violet 15		Animal tests have also demonstrated no skin irritation or sensitization.		
	Oral (rat) LD50: >10,000 mg/kgl ² J	[ICI]		
Legend:	1. Value obtained from Europe ECHA Registered Substances - data extracted from RTECS - Register of Toxic Effect of chemica	Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified al Substances		
CALCIUM SULFATE	Asthma-like symptoms may continue for months or even years aft reactive airways dysfunction syndrome (RADS) which can occu RADS include the absence of previous airways disease in a non- hours of a documented exposure to the irritant. Other criteria for	er exposure to the material ends. This may be due to a non-allergic condition known as r after exposure to high levels of highly irritating compound. Main criteria for diagnosing atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to		

	severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymph Gypsum (calcium sulfate dehydrate) irritates the skin, eye, mucous membranes, and airways. A se Poland reported chronic, non-specific airways diseases. Repeat dose toxicity: Examination of workers at a gypsum manufacturing plant found restrictive de exposed to gypsum dust. Synergistic/antagonistic effects: Gypsum appears to be protective on quartz toxicity in animal test	ocytic inflammation, without eosinophilia. eries of studies involving Gypsum industry workers in efects on long-function tests in those who were chronically ing.	
SILICA AMORPHOUS	The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing. Reports indicate high/prolonged exposures to amorphous silicas induced lung fibrosis in experimental animals; in some experiments these effects were reversible. [PATTYS]		
CRISTOBALITE	WARNING: For inhalation exposure <u>ONLY</u> : This substance has been classified by the IARC as Group 1: CARCINOGENIC TO HUMANS The International Agency for Research on Cancer (IARC) has classified occupational exposures to respirable (<5 um) crystalline silica as being carcinogenic to humans . This classification is based on what IARC considered sufficient evidence from epidemiological studies of humans for the carcinogenicity of inhaled silica in the forms of quartz and cristobalite. Crystalline silica is also known to cause silicosis, a non-cancerous lung disease. Intermittent exposure produces; focal fibrosis, (pneumoconiosis), cough, dyspnoea, liver tumours. Inhalation (human) TCLo: 16 mppcf ¹ /8H/17.9y-1 * Millions of particles per cubic foot		
SILICA AMORPHOUS, FUMED	For silane, dichloro-methyl-, reaction products with silica: Acute oral toxicity is very low for treated silica. Animals who inhaled these substances recovered from inflammatory changes in the airway when exposure ended. Repeated inhalation in animals caused inflammation and scarring of the lungs with enlarged lymph nodes. Treated silica does not cause mutations or genetic damage and has not been shown to cause cancer.		
TITANIUM DIOXIDE	The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. 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.		
BENZYL-C7-C8-ALKYL PHTHALATE	High Molecular Weight Phthalate Esters (HMWPEs) Category The HMWPE group includes chemically similar substances produced from alcohols. These substances have been demonstrated to have few biological effects. They demonstrate minimal acute toxicity, with effect on the liver and kidney at high doses. They also cause reproductive and developmental toxicity, also, liver cancer. The material may produce peroxisome proliferation. Peroxisomes are single, membrane limited organelles in the cytoplasm that are found in the cells of animals, plants, fungi, and protozoa. The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. * Monsanto		
DIMETHYLSILOXANE, VINYL- TERMINATED & DIMETHYLSILOXANE, METHYLHYDROGEN-	Siloxanes may impair liver and hormonal function, as well as the lung and kidney. They have not been found to be irritating to the skin and eyes. They may potentially cause cancer (tumours of the womb in females) and may cause impaired fertility or infertility.		
SILICA AMORPHOUS & SILICA AMORPHOUS, FUMED	For silica amorphous: When experimental animals inhale synthetic amorphous silica (SAS) dust, it dissolves in the lung fluid and is rapidly eliminated. If swallowed, the vast majority of SAS is excreted in the faeces and there is little accumulation in the body. Following absorption across the gut, SAS is eliminated via urine without modification in animals and humans. SAS is not expected to be broken down (metabolised) in mammals.		
DIMETHYLSILOXANE, METHYLHYDROGEN- & AR-TOSYLAMIDE/ FORMALDEHYDE/ MELAMINE POLYMER	No significant acute toxicological data identified in literature search.		
TITANIUM DIOXIDE & BENZYL- C7-C8-ALKYL PHTHALATE	The material may cause skin irritation after prolonged or repeated exposure and may produce on scaling and thickening of the skin.	contact skin redness, swelling, the production of vesicles,	
Acute Toxicity	X Carcinogenicity	✓	
Skin Irritation/Corrosion	Reproductivity	\otimes	
Serious Eye Damage/Irritation	✓ STOT - Single Exposure	✓	
Respiratory or Skin sensitisation	STOT - Repeated Exposure	0	
Mutagenicity	S Aspiration Hazard	\odot	
	Legend: X -	Data available but does not fill the criteria for classification Data available to make classification	

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S − Data Not Available to make classification
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SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Dentsply Regisil - Regisil 2X - Regisil PB - Regisil Rigid	ENDPOINT Not Available	TEST DURATION (HR) Not Available	SPECIES Not Available	VALUE Not Available	SOURCE Not Available
dimethylsiloxane, vinyl- terminated	ENDPOINT Not Available	TEST DURATION (HR) Not Available	SPECIES Not Available	VALUE Not Available	SOURCE Not Available

	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
calcium sulfate	LC50	96	Fish	>1970mg/L	4
	EC50	96	Algae or other aquatic plants	3200mg/L	4
	EC0	96	Crustacea	=1255.000mg/L	1
	NOEC	504	Crustacea	360mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	ca.2000mg/L	1
	EC50	48	Crustacea	ca.7600mg/L	1
silica amorphous	EC50	72	Algae or other aquatic plants	440mg/L	1
	EC10	72	Algae or other aquatic plants	140mg/L	1
	NOEC	72	Algae or other aquatic plants	60mg/L	1
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
cristobalite	Not Available	Not Available	Not Available	Not Available	Not Available
dimothydoilayona	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
methylhydrogen-	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
silica amorphous, rumed	NOEC	24	Crustacea	>=10000mg/L	1
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	155mg/L	2
titerium disuide	EC50	48	Crustacea >10mg/L		2
titanium dioxide	EC50	72	Algae or other aquatic plants 5.83mg/L		4
	EC20	72	Algae or other aquatic plants	1.81mg/L	4
	NOEC	336	Fish	0.089mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
hannal 07 00 allud ab() abd	EC50	48	Crustacea	=0.3mg/L	1
benzyl-C7-C8-alkyl phthalate	EC50	96	Algae or other aquatic plants	=0.3mg/L	1
	NOEC	528	Crustacea	=0.039mg/L	1
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
ar-tosylamide/ formaldenyde/ melamine polymer	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
C.I. Pigment Violet 15	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Extracted from 1	. IUCLID Toxicity Data 2. Europe ECHA	Registered Substances - Ecotoxicological Information	- Aquatic Toxicity 3. EPIWIN	l Suite V3.12

(QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
calcium sulfate	HIGH	HIGH
silica amorphous	LOW	LOW
titanium dioxide	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
calcium sulfate	LOW (LogKOW = -2.2002)
silica amorphous	LOW (LogKOW = 0.5294)
titanium dioxide	LOW (BCF = 10)

Mobility in soil

calcium sulfate	LOW (KOC = 6.124)
silica amorphous	LOW (KOC = 23.74)
titanium dioxide	LOW (KOC = 23.74)

SECTION 13 DISPOSAL CONSIDERATIONS

Consult manufacturer for recycling options and recycle where possible . Consult State Land Waste Management Authority for disposal.	Waste treatment methods	
Product / Packaging disposal Incinerate residue at an approved site. Recycle containers if possible, or dispose of in an authorised landfill. 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, t 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. 	Product / Packaging disposal	 Consult manufacturer for recycling options and recycle where possible . Consult State Land Waste Management Authority for disposal. Incinerate residue at an approved site. Recycle containers if possible, or dispose of in an authorised landfill. 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.

SECTION 14 TRANSPORT INFORMATION

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

SECTION 15 REGULATORY INFORMATION

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

DIMETHYLSILOXANE, VINYL-TERMINATED(68083-19-2) IS FOUND ON THE FOLLOWING	REGULATORY LISTS
Australia Inventory of Chemical Substances (AICS)	
CALCIUM SULFATE(7778-18-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Australia Exposure Standards	Australia Inventory of Chemical Substances (AICS)
SILICA AMORPHOUS(7631-86-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Australia Exposure Standards	Australia Inventory of Chemical Substances (AICS)
Australia Hazardous Substances Information System - Consolidated Lists	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs
CRISTOBALITE(14464-46-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Australia Exposure Standards	Australia Inventory of Chemical Substances (AICS)
Australia Hazardous Substances Information System - Consolidated Lists	Australia Work Health and Safety Regulations 2016 - Hazardous chemicals (other than lead) requiring health monitoring
DIMETHYLSILOXANE, METHYLHYDROGEN-(68037-59-2) IS FOUND ON THE FOLLOWIN	G REGULATORY LISTS
Australia Inventory of Chemical Substances (AICS)	
SILICA AMORPHOUS, FUMED(68611-44-9) IS FOUND ON THE FOLLOWING REGULATOR	RY LISTS
Australia Hazardous Substances Information System - Consolidated Lists	Australia Inventory of Chemical Substances (AICS)
TITANIUM DIOXIDE(13463-67-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Australia Exposure Standards	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC
Australia Inventory of Chemical Substances (AICS)	Monographs
BENZYL-C7-C8-ALKYL PHTHALATE(68515-40-2) IS FOUND ON THE FOLLOWING REGU	LATORY LISTS
Australia Inventory of Chemical Substances (AICS)	
AR-TOSYLAMIDE/ FORMALDEHYDE/ MELAMINE POLYMER(39277-28-6) IS FOUND ON T	HE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

C.I. PIGMENT VIOLET 15(12769-96-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y

Canada - NDSL	N (silica amorphous, fumed; dimethylsiloxane, vinyl-terminated; C.I. Pigment Violet 15; ar-tosylamide/ formaldehyde/ melamine polymer; cristobalite; dimethylsiloxane, methylhydrogen-; benzyl-C7-C8-alkyl phthalate; calcium sulfate)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	N (dimethylsiloxane, vinyl-terminated; ar-tosylamide/ formaldehyde/ melamine polymer; dimethylsiloxane, methylhydrogen-)
Japan - ENCS	N (silica amorphous, fumed; dimethylsiloxane, vinyl-terminated; C.I. Pigment Violet 15; dimethylsiloxane, methylhydrogen-; benzyl-C7-C8-alkyl phthalate)
Korea - KECI	Υ
New Zealand - NZIoC	Υ
Philippines - PICCS	Υ
USA - TSCA	Υ
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Other information

Ingredients with multiple cas numbers

Name	CAS No
calcium sulfate	7778-18-9, 10101-41-4, 14798-04-0
silica amorphous	7631-86-9, 112945-52-5, 67762-90-7, 68611-44-9, 68909-20-6, 112926-00-8, 61790-53-2, 60676-86-0, 91053-39-3, 69012-64-2, 844491-94-7
silica amorphous, fumed	68611-44-9, 112945-52-5, 60842-32-2
titanium dioxide	13463-67-7, 1317-70-0, 1317-80-2, 12188-41-9, 1309-63-3, 100292-32-8, 101239-53-6, 116788-85-3, 12000-59-8, 12701-76-7, 12767-65-6, 12789-63-8, 1344-29-2, 185323-71-1, 185828-91-5, 188357-76-8, 188357-79-1, 195740-11-5, 221548-98-7, 224963-00-2, 246178-32-5, 252962-41-7, 37230-92-5, 37230-94-7, 37230-95-8, 37230-96-9, 39320-58-6, 39360-64-0, 39379-02-7, 416845-43-7, 494848-07-6, 494848-23-6, 494851-77-3, 494851-98-8, 55068-84-3, 55068-85-4, 552316-51-5, 62338-64-1, 767341-00-4, 97929-50-5, 98084-96-9
C.I. Pigment Violet 15	12769-96-9, 12770-94-4, 1345-00-2, 12627-42-8

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

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

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

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