SAFETY DATA SHEETS

This SDS packet was issued with item:

076209969

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

076207005 076207013 076207021 076207039 076207047 076207054 076207062 076209902 076209910 076209928 076209936 076209944 076209951

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Version: 4

Substance / Preparation and Company Name

Product Name:

seT Capsules and seT PP Syringes

Recommended use:

Cementing of composite, ceramic and metallic indirect restorations.

Manufacturer / Supplier

SDI Limited

SDI Inc.

3-13 Brunsdon Street, Bayswater

729 N.Route 83, Suite 315

Victoria, 3153, Australia

Bensenville 60106 IL, USA

Telephone:

Telephone:

Telephone:

+61 3 8727 7111 (Business hours)

630 238 8300 (Business hours)

Southern Dental Industries Ltd

SDI Brasil Indústria e Comércio Ltda

Block 8, St Johns Court

Rua Dr. Virgílio de Carvalho Pinto, 612 Pinheiros, São Paulo, 05415-020

Swords Road

Brasil

Santry, Dublin 9, Ireland

Telephone:

+353 1 886 9577 (Business Hours)

+55 11 3092 7100 (Business Hours)

Emergency contact number: +61 3 8727 7111

Composition / Information on Ingredients 2.

Composition:	CAS No.	<u>Wt. %</u>
Fluoroaluminosilicate Glass		60-70
Urethane Dimethacrylate	72869-86-4	<20
Camphorquinone	10373-78-1	<1
Acidic Monomer		<20

Hazard Identification 3.

Product is an irritant. Avoid contact with skin and eyes.

Risk Phrases:

Irritating to eyes. 36

38

Irritating to skin.

Safety Phrases:

Avoid contact with eyes. 25

In case of contact with eyes, rinse immediately with plenty of water and 26

seek medical advice.

After contact with skin, wash immediately with water and soap. 28

First Aid Measures

Eye (contact):

Flush opened eye with running water for 15 minutes. Seek medical attention.

Skin (contact):

Wash skin with plenty of water. If irritation Remove contaminated clothing.

occurs seek medical attention.

Ingestion:

Drink plenty of water. Seek medical attention if discomfort continues.

MATERIAL SAFETY DATA SHEET [according to GHS & NOHSC:2011(2003)]

Product: seT Capsules and seT PP Syringes

Date / Revised: 01.08.2012

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5. Fire Fighting Measures

Suitable Extinguishing Media:

None required.

Unusual Fire and Explosion Hazards:

None.

Special Protective Equipment:

No special protective equipment required.

6. Accidental Release Measures

Personal Precautions:

Do not get into eyes, on skin or clothing.

Environmental Precautions:

Prevent product from entering drains, surface water or ground water.

Method for Cleaning Spills:

Contain with absorbent material (e.g. sand, diatomaceous earth) and

dispose of in accordance with regulations.

7. Handling and storage - seT

Handling

Store sealed containers away from heat and light.

Storage

Storage by the end user (Dental Clinic) is recommended to be at temperatures between 2° - 8° C (35° - 45°F) and should be kept away from direct sunlight.

Distribution

During distribution, to our customers, this product can be transported in non-refrigerated conditions between 15° to 25° C. This product can also withstand temperatures up to 40°C for short periods (2 to 3 days) and intermittent peaks up to 50°C.

Handling and storage - seT PP

Handling

Store sealed containers away from heat and light.

<u>Storage</u>

Storage by the end user (Dental Clinic) is recommended to be at temperatures between 2° - 25° C (35° - 77° F) and should be kept away from direct sunlight.

Distribution

During distribution, to our customers, this product can be transported in non-refrigerated conditions between 15° to 25° C. This product can also withstand temperatures up to 40°C for short periods (2 to 3 days) and intermittent peaks up to 50°C.

8. Exposure Controls / Personal Protection

Respiratory Protection:

None required under normal conditions of use.

Hand Protection:

Latex or rubber gloves.

Eye Protection:

Safety glasses or goggles

General Safety and Hygiene Measures: None

MATERIAL SAFETY DATA SHEET [according to GHS & NOHSC:2011(2003)]

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9. Physical and Chemical Properties

Appearance:

Slightly yellow liquid

Odour:

Slightly characteristic odour

Boiling Point:

Not available

Melting Point:

Not available

Specific Gravity:

 $2.0 \, \text{g} \, / \, \text{cm}^3$

Flash Point:

Not applicable

Flammable:

Not flammable

Autoflammability:

Not applicable

Explosive Properties:

Does not present an explosion hazard

Oxidising Properties:

Not applicable

Vapour Pressure (@ 20°C):

Not applicable

Vapour Density:

<1.0

Solubility:

Not miscible

10. Stability and Reactivity

Stability:

Stable under normal conditions.

Conditions to Avoid:

Avoid excessive heat

Materials to Avoid:

None

Hazardous Decomposition Products:

None when used as directed

Hazardous Reactivity (Polymerization):

No hazardous reactions known

11. Toxicological Information

Acute Toxicity:

Contact with skin and eyes may cause irritation.

Eye (contact):

Irritating to eyes.

Skin (contact):

Possible skin irritant.

Inhalation (powder)

May be irritating.

Ingestion:

Irritation not likely in small amounts.

12. Ecological Information

Self-Assessment:

Not readily biodegradable. Avoid large quantities entering drains, surface water

or ground water.

MATERIAL SAFETY DATA SHEET [according to GHS & NOHSC:2011(2003)]

Product: seT Capsules and seT PP Syringes

Date / Revised: 01.08.2012

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13. Disposal Considerations

Dispose in accordance with local official regulations.

14. Transport Information

This product is not considered to be a dangerous good within the meaning of transportation regulations.

15. Regulatory Information

This product is regulated by:

TGA Medical Devices Directive 93/42/EEC FDA National regulations

16. Other Information

Preparation of MSDS:

Prepared by: SDI Limited Phone Number:

3-13 Brunsdon Street, Bayswater +61 3 8727 7111

Victoria, 3153, Australia

Version: 1

The information contained in the Material Safety Data Sheet is based on data considered to be accurate, however, no warranty is expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof.

Department issuing MSDS: Research and Development

Contact: Technical Manager - Polymers



seT Capsules and seT PP Syringes

SDI Limited

Version No: **5.1.1.1**Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: 18/03/2016 Print Date: 31/03/2016 Initial Date: Not Available L.GHS.USA.EN

SECTION 1 IDENTIFICATION

Product Identifier

Product name	seT Capsules and seT PP Syringes
Synonyms	Not Available
Other means of identification	Not Available

Recommended use of the chemical and restrictions on use

Relevant identified uses Professional dental use: Cementing of composite, ceramic and metallic indirect restorations.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	SDI Limited	SDI Brazil Industria E Comercio Ltda	SDI Germany GmbH	
Address	3-15 Brunsdon Street VIC Bayswater 3153 Australia	Rua Dr. Virgilio de Carvalho Pinto, 612 São Paulo CEP 05415-020 Brazil	Hansestrasse 85 Cologne D-51149 Germany	
Telephone	+61 3 8727 7111 (Business Hours)	+55 11 3092 7100	+49 0 2203 9255 0	
Fax	+61 3 8727 7222	+55 11 3092 7101	+49 0 2203 9255 200	
Website	www.sdi.com.au	www.sdi.com.au	www.sdi.com.au	
Email	info@sdi.com.au	brasil@sdi.com.au	germany@sdi.com.au	
Registered company name SDI (North America) Inc.				
Address	1279 Hamilton Parkway IL Itasca 60143 United States			
Telephone	+1 630 361 9200 (Business hours)			
Fax	Not Available			
Website	Not Available			
Email	USA.Canada@sdi.com.au			

Emergency phone number

Emergency phone number			
Association / Organisation	SDI Limited	Not Available	Not Available
Emergency telephone numbers	+61 3 8727 7111	Not Available	Not Available
Other emergency telephone numbers	ray.cahill@sdi.com.au	Not Available	Not Available
Association / Organisation	Not Available		
Emergency telephone numbers	+61 3 8727 7111		
Other emergency telephone numbers	Not Available		

SECTION 2 HAZARD(S) IDENTIFICATION

Classification of the substance or mixture NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification Skin Corrosion/Irritation Category 2, Serious Eye Damage Category 1, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation)

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seT Capsules and seT PP Syringes

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GHS label elements





SIGNAL WORD

DANGER

Hazard statement(s)

• •	
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

Hazard(s) not otherwise specified

Not Applicable

Precautionary statement(s) Prevention

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.

Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P362	Take off contaminated clothing and wash before reuse.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P332+P313	If skin irritation occurs: Get medical advice/attention.

Precautionary statement(s) Storage

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

Precautionary statement(s) Disposal

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	
Not Available	60-70	fluoroaluminosilicate glass	
72869-86-4	<20	diurethane dimethacrylate	
Not Available	<20	acidic monomer	
10373-78-1	<1	camphorquinone	

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 FIRST-AID MEASURES

Description of first aid me	asures
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. Seek medical attention.

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Ingestion

- ► If swallowed do NOT induce vomiting
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- Observe the patient carefully.
 - Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- Seek medical advice.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIRE-FIGHTING MEASURES

Extinguishing media

Foam is generally ineffective.

Special hazards arising from the substrate or mixture

Fire Incompatibility

Avoid contamination

▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Special protective equipment and precautions for fire-fighters

Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Fight fire from a safe distance, with adequate cover. If safe, switch off electrical equipment until vapour fire hazard removed. Use water delivered as a fine spray to control the fire and cool adjacent area. Avoid spraying water onto liquid pools. Do not approach containers suspected to be hot.

May be violently or explosively reactive.

▶ Alert Fire Brigade and tell them location and nature of hazard.

- 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

- Compustible.
- Slight fire hazard when exposed to heat or flame.
- ▶ Heating may cause expansion or decomposition leading to violent rupture of containers.
- $\,\blacktriangleright\,$ 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 materialMay emit poisonous fumes. May emit corrosive fumes.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services.

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs.

Use in a well-ventilated area.

Safe handling

- Prevent concentration in hollows and sumps.
- ► DO NOT enter confined spaces until atmosphere has been checked.
- $\ \blacktriangleright \$ Avoid smoking, naked lights or ignition sources.

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- Avoid contact with incompatible materials.
- ▶ When handling, **DO NOT** eat, drink or smoke.
- ▶ Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately.
- Use good occupational work practice.
- ▶ Observe manufacturer's storage and handling recommendations contained within this SDS.
- ► Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.

Other information

Store in a dry and well ventilated-area, away from heat and sunlight. **Do not** store in direct sunlight.

Store between 5 and 25 deg. C. Store between 2 and 8 deg C.

Conditions for safe storage, including any incompatibilities

Suitable container

- ▶ DO NOT repack. Use containers supplied by manufacturer only.
- Storage incompatibility
- Avoid storage with reducing agents.Avoid reaction with oxidising agents

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

EMERGENCY LIMITS

ingredient	wateriai name	TEEL-T		TEEL-2	TEEL-3	
diurethane dimethacrylate	Diurethane dimethacrylate	60 mg/m3		660 mg/m3	4000 mg/m3	
Ingredient	Original IDLH		Revised II	ed IDLH		
fluoroaluminosilicate glass	Not Available		Not Availab	ailable		
diurethane dimethacrylate	Not Available		Not Availab	lable		
acidic monomer	Not Available		Not Availab	Available		
camphorquinone	Not Available		Not Availab	ole		

MATERIAL DATA

Exposure 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:

Type of Contaminant

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.

General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in special circumstances. If risk of overexposure exists, wear approved respirator. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. Provide adequate ventilation in warehouses and enclosed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Appropriate engineering controls

Typo of Contaminant.	7 til Opoca.
solvent, vapours, degreasing etc., evaporating from tank (in still air).	0.25-0.5 m/s (50-100 f/min)
aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)
grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion)	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

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

Air Sneed

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Personal protection Chemical goggles. 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 Eye and face protection chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] Skin protection See Hand protection below ▶ Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber Hands/feet protection ▶ Rubber Gloves See Other protection below **Body protection** Overalls. ► P.V.C. apron. Other protection Barrier cream. ▶ Skin cleansing cream. ▶ Eye wash unit. Thermal hazards Not Available

Respiratory protection

Type A 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	-	A-PAPR-AUS / Class 1
up to 50 x ES	-	A-AUS / Class 1	-
up to 100 x ES	-	A-2	A-PAPR-2 ^

⁻ 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	Slightly yellow liquid with slight characteristic odour, does not mix with water.		
5 1 1 1			
Physical state	Liquid	Relative density (Water = 1)	2.0
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)	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 Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
	Obtained by Global Safety Management, www.globalsafetynet.com (877) 683-7460

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seT Capsules and seT PP Syringes

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

Information on toxicologic	cal effects		
Inhaled	Evidence shows, or practical experience predicts, that the material produces in inhalation. In contrast to most organs, the lung is able to respond to a chemica damage. The repair process, which initially evolved to protect mammalian lungs resulting in the impairment of gas exchange, the primary function of the lungs. the recruitment and activation of many cell types, mainly derived from the vascul	s from foreign matter and antigens, may however, produce further lung damage Respiratory tract irritation often results in an inflammatory response involving	
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.		
Skin Contact	Evidence exists, or practical experience predicts, that the material either product direct contact, and/or produces significant inflammation when applied to the heat twenty-four hours or more after the end of the exposure period. Skin irritation may for contact dermatitis (nonallergic). The dermatitis is often characterised by blistering (vesiculation), scaling and thickening of the epidermis. At the microsc (spongiosis) and intracellular oedema of the epidermis. The material may accentuate any pre-existing dermatitis condition Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wou skin prior to the use of the material and ensure that any external damage is suita	althy intact skin of animals, for up to four hours, such inflammation being present ay also be present after prolonged or repeated exposure; this may result in a y skin redness (erythema) and swelling (oedema) which may progress to sopic level there may be intercellular oedema of the spongy layer of the skin unds or lesions, may produce systemic injury with harmful effects. Examine the	
Eye	When applied to the eye(s) of animals, the material produces severe ocular lesions which are present twenty-four hours or more after instillation.		
Chronic	Long-term exposure to respiratory irritants may result in disease of the airways Limited evidence suggests that repeated or long-term occupational exposure m	• • •	
	TOVICITY	IDDITATION	
seT Capsules and seT PP Syringes	TOXICITY Not Available	IRRITATION Not Available	
diurethane dimethacrylate	TOXICITY Oral (rat) LD50: >5000 mg/kg ^[1]	IRRITATION Not Available	
camphorquinone	TOXICITY Not Available	IRRITATION Not Available	
Legend:	Nalue obtained from Europe ECHA Registered Substances - Acute toxicity 2	2.* Value obtained from manufacturer's SDS. Unless otherwise specified data	

The following information refers to contact allergens as a group and may not be specific to this product.

extracted from RTECS - Register of Toxic Effect of chemical Substances

Contact allergies guickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g., contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested.

DIURETHANE DIMETHACRYLATE

Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production. UV (ultraviolet)/ EB (electron beam) acrylates are generally of low toxicity

UV/EB acrylates are divided into two groups; "stenomeric" and "eurymeric" acrylates.

The first group consists of well-defined acrylates which can be described by a simple idealised chemical; they are low molecular weight species with a very narrow weight distribution profile.

The eurymeric acrylates cannot be described by an idealised structure and may differ fundamentally between various suppliers; they are of relatively high molecular weigh and possess a wide weight distribution.

Stenomeric acrylates are usually more hazardous than the eurymeric substances. Stenomeric acrylates are also well defined which allows comparison and exchange of toxicity data - this allows more accurate classification.

The stenomerics cannot be classified as a group; they exhibit substantial variation.

Where no "official" classification for acrylates and methacrylates exists, there has been cautious attempts to create classifications in the absence of contrary evidence. For example

Monalkyl or monoarylesters of acrylic acids should be classified as R36/37/38 and R51/53

Monoalkyl or monoaryl esters of methacrylic acid should be classified as R36/37/38

* Possible carcinogen; possible sensitizer; possible irreversible effects * Polysciences MSDS

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CAMPHORQUINONE

The following information refers to contact allergens as a group and may not be specific to this product.

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested.

No significant acute toxicological data identified in literature search.

Acute Toxicity	0	Carcinogenicity	0
Skin Irritation/Corrosion	✓	Reproductivity	0
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	0
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	0

Legend:

🗶 – Data available but does not fill the criteria for classification

Data required to make classification available

O - Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source	
diurethane dimethacrylate	EC50	48	Crustacea	>1.2mg/L	2	
diurethane dimethacrylate	EC50	72	Algae or other aquatic plants	>0.68mg/L	2	
diurethane dimethacrylate	NOEC	72	Algae or other aquatic plants	>0.21mg/L	2	
camphorquinone	EC50	384	Crustacea	53.788mg/L	3	
camphorquinone	EC50	96	Algae or other aquatic plants	1054.236mg/L	3	
camphorquinone	LC50	C50 96 Fish 230.775mg/L 3				
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - 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
camphorquinone	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
camphorquinone	LOW (LogKOW = 1.52)

Mobility in soil

Ingredient	Mobility
camphorquinone	LOW (KOC = 12.6)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- ► Where in doubt contact the responsible authority.

Consult State Land Waste Management Authority for disposal.

Bury residue in an authorised landfill.

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant NO

Land transport (DOT): 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

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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

DIURETHANE DIMETHACRYLATE(72869-86-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

CAMPHORQUINONE(10373-78-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SECTION 311/312 HAZARD CATEGORIES

Immediate (acute) health hazard	YES
Delayed (chronic) health hazard	NO
Fire hazard	NO
Pressure hazard	NO
Reactivity hazard	NO

US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

None Reported

State Regulations

US. CALIFORNIA PROPOSITION 65

None Reported

National Inventory	Status
Australia - AICS	Y
Canada - DSL	N (diurethane dimethacrylate)
Canada - NDSL	Y
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (diurethane dimethacrylate; camphorquinone)
Korea - KECI	N (camphorquinone)
New Zealand - NZIoC	Y
Philippines - PICCS	Υ
USA - TSCA	Y
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
diurethane dimethacrylate	41137-60-4, 72869-86-4
camphorquinone	10334-26-6, 10373-78-1, 2767-84-2, 465-29-2

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by SDI Limited 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

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TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

The information contained in the Safety Data Sheet is based on data considered to be accurate, however, no warranty is expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof.

Other information:

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Date of preparation/revision: 23rd September 2015 Department issuing SDS: Research and Development

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