

SDI Limited

Version No: 5.1.1.1 Safety Data Sheet (Conforms to Regulations (EC) No 2015/830) Issue Date: 18/03/2016 Print Date: 31/03/2016 Initial Date: Not Available L.REACH.GBR.EN

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

1.1.Product Identifier			
Product name	seT Capsules and seT PP Syringes		and the second of the second s
Synonyms	Not Available	4 40 10 40 10	
Other means of identification	Not Available	N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The state of the s
1.2. Relevant identified us	es of the substance or mixture and u	ses advised against	Mile of Formal William and Committee Mile of Toronto
Relevant identified uses	Professional dental use: Cementing of compos		the second contract of
Uses advised against	Not Applicable		a second a second secon
11.000.000.000.000.000.000.000.000.000.		2 2 2 2	3 180
1.3. Details of the supplier	of the safety data sheet		
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.	190 (4 1) 1 (1) (2) 4 (1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	The Carlot of Section 19 and 1
Address	1279 Hamilton Parkway IL Itasca 60143 United S	States	a dispositazi na angali isini
Telephone	+1 630 361 9200 (Business hours)		
Fax	Not Available		
Website	Not Available		the Mr Area and less the second second second
Email	USA.Canada@sdi.com.au		The second of the second of
1.4. Emergency telephone Association / Organisation	number	Not Available	Not Available
Emergency telephone	464 2 0727 7444		
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	and the state while the property of the same and	
Other emergency telephone numbers	Not Available		
and the second s		The second secon	
SECTION 2 HAZARDS ID	ENTIFICATION		
2.1.Classification of the su	ubstance or mixture		
Considered a dangerou classified as Dangerou	us mixture according to directive 1 s Goods for transport purposes.	999/45/EC, Reg. (EC) No 1272/2008 (if	applicable) and their amendments. Not
DSD classification	In case of mixtures, classification has been prep	pared by following DPD (Directive 1999/45/EC) and CLF	Regulation (EC) No 1272/2008 regulations
	R37/38 Irritating to respiratory system and	The second secon	The second secon
DPD classification [1]	R41 Risk of serious damage to eyes.	a oruit.	

Issue Date: 18/03/2016 Print Date: 31/03/2016

seT Capsules and seT PP Syringes

Legend:
Classification according to regulation (EC) No 1272/2008 [CLP] [1]
Legend:

1. Classification by vendor; 2. Classification drawn from EC Directive 67/548/EEC - Annex I; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

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

1. Classification by vendor, 2. Classification drawn from EC Directive 67/548/EEC - Annex I; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

2.2. Label elements

CLP label elements





SIGNAL WORD	DANGER			
Hazard statement(s)		 ***************************************	 ***************************************	******
H315	Causes skin irritation.			
H318	Causes serious eye damage.			
H335	May cause respiratory irritation.			
Supplementary statement(s	s)			
EUH208	Contains diurethane dimethacrylate, campho	n allergic reaction.	 	

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/furne/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/doctor/physician/first aider.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P332+P313	If skin imitation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

Precautionary statement(s) Storage

	professional and the second					
P405	Store locked up.					
P403+P233	Store in a well-ventilated place	e. Keep container tight	tly closed.			
THE RESIDENCE OF STREET, SAME AND ADDRESS OF THE PARTY OF	the manufacture of the contract of the contrac					

Precautionary statement(s) Disposal

D501	Discose of c	ontonto/o	antainer in	 danaaith	local constat	

2.3. Other hazards

Cumulative effects may result following exposure*.

REACh - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1.Substances

See 'Composition on ingredients' in Section 3.2

3.2.Mixtures

1.CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to directive 67/548/EEC [DSD]	Classification according to regulation (EC) No 1272/2008 [CLP]
Not Available Not Available Not Available Not Available Not Available	60-70	fluoroaluminosilicate glass	Not Applicable	Not Applicable
1.72869-86-4 2.276-957-5 3.Not Available 4.01-2119408252-52-XXXX	<20	diurethane dimethacrylate	R36/37/38, R43 ^[1]	Skin Corrosion/Irritation Category 2, Eye Irritation Category 2, Skin Sensitizer Category 1, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation); H315, H319, H317, H335 [1]

Issue Date: 18/03/2016 Print Date: 31/03/2016

1.Not Available 2. Not Available <20 3 Not Available

acidic monomer

Not Applicable

Not Applicable

1 10373-78-1 2.233-814-1 3.Not Available 4.Not Available

<1 camphorquinone

R22, R43 [1]

Acute Toxicity (Oral) Category 4, Skin Sensitizer Category 1; H302, H317 [1]

1. Classification by vendor; 2. Classification drawn from EC Directive 67/548/EEC - Annex I; 3. Classification drawn from EC Directive 1272/2008 - Annex VI 4. Classification drawn from C&L

SECTION 4 FIRST AID MEASURES

4.1. Description of first aid measures

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 imitation.

- If this product comes in contact with the eyes:

 Immediately hold eyelids apart and flush the eye continuously with running water.
 - Ensure complete imigation 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.

General

- Transport to hospital or doctor without delay.

 Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. If furnes or combustion products are inhaled remove from contaminated area.
- Seek medical attention
 - If swallowed do NOT induce vomiting.
 - If vorniting 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.

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 impaction 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

- Immediately remove all contaminated clothing, including footw
 Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

Inhalation

Ingestion

- If fumes or combustion products are inhaled remove from contaminated area.
- Seek medical attention

If skin contact occurs:

- 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.
- Observe the patient caretury.

 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.
- 4.2 Most important symptoms and effects, both acute and delayed

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5 FIREFIGHTING MEASURES

5.1. Extinguishing media

Foam is generally ineffe

5.2. 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

5.3. Advice for firefighters

- Alert Fire Brigade and tell them location and nature of hazard.
- May be violently or explosively reactive.

 Wear full body protective clothing with breathing appar
- 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.

Fire Fighting

- 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.

 Cool fire exposed containers with water spray from a protected location.

Heating may cause expansion or decomposition leading to violent rupture of containers

Issue Date: 18/03/2016 Print Date: 31/03/2016

- If safe to do so, remove containers from path of fire.
- Combustible
- Slight fire hazard when exposed to heat or flame.
- On combustion, may emit toxic furnes of carbon monoxide (CO).
- Fire/Explosion Hazard 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 errit poisonous fumes. May emit corrosive

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

See section 8

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

- Remove all ignition sources. Clean up all spills immediately

Minor Spills

- 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.

- Wpe up.
 Place in a suitable, labelled container for waste disposal

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.

Major Spills

- - 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.

6.4. Reference to other sections

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

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources.
- Avoid contact with incompatible materials Safe handling
 - 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 practic
 - 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.

Fire and explosion protection

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

7.2. 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

7.3. Specific end use(s)

See section 1.2

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

DERIVED NO EFFECT LEVEL (DNEL)

Not Available

PREDICTED NO EFFECT LEVEL (PNEC)

Not Available

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
EMERGENCY LIMITS						
Ingredient	Material name		TEEL-1	TEEL-2		TEEL-3
diurethane dimethacrylate	Diurethane dimetha	crylate	60 mg/m3	660 mg/m3		4000 mg/m3
Ingredient	Original IDLH			Revised IDLH		
fluoroaluminosilicate glass	Not Available			Not Available		The second section is a second second section of the second secon
diurethane dimethacrylate	Not Available			Not Available		
acidic monomer	Not Available			Not Available		
camphorquinone	Not Available			Not Available		

MATERIAL DATA

8.2. 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 ctive 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:

The basic types or engineering controls aric.

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.

8.2.1. Appropriate engineering controls

0.25-0.5 m/s (50-100 solvent, vapours, degreasing etc., evaporating from tank (in still air). f/min) aerosols, furnes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid furnes, 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 1-2.5 m/s (200-500 zone of rapid air motion) f/min.) grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid 2.5-10 m/s (500-2000 air motion) 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	
The second secon	1: Disturbing room air currents
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.

8.2.2. Personal protection



Type of Contaminant:









Chemical goggles.

Eye and face protection

Safety glasses with side shields

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 Contact lens 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 imigation immediately and remove contact lens as soon as practicable. Lens should be removed

Continued...

Air Speed:

Issue Date: 18/03/2016 Print Date: 31/03/2016

seT Capsules and seT PP Syringes

	 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 N Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] 	IOSH
Skin protection	See Hand protection below	
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber Rubber Gloves 	
Body protection	See Other protection below	
Other protection	Overalls. P.V.C. apron. 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	the second second	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)

8.2.3. Environmental exposure controls

See section 12

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Slightly yellow liquid with slight characte	ristic odour, does not mix with water.	
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	
Jpper 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	

9.2. Other information

Not Available

SECTION 10 STABILITY AND REACTIVITY

10.1.Reactivity	See section 7.2	-						
10.2 Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymorisation will not occur. 				 			
10.3. Possibility of hazardous reactions	See section 7.2					100 100 100 1000		
10.4. Conditions to avoid	See section 7.2			** *******				

Issue Date: 18/03/2016 Print Date: 31/03/2016

10.5. Incompatible materials

See section 7.2

10.6. Hazardous

See section 5.3

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Evidence shows, or practical experience predicts, that the material produces imitation of the respiratory system, in a substantial number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage. resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract imitation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.

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 produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being pret wenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erytherna) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis.

The material may accentuate any pre-existing dermatitis condition Open cuts, abraded or irritated skin should not be exposed to this r should not be exposed to this material

Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

Eve Chronic

When applied to the eye(s) of animals, the material produces severe ocular lesions which are present twenty-four hours or more after instillation.

Long-term exposure to respiratory initants may result in disease of the airways involving difficult breathing and related systemic problems. Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.

seT Capsules and seT PP Syringes

diurethane dimethacrylate

TOXICITY IRRITATION Not Available Not Available TOXICITY IRRITATION Oral (rat) LD50: >5000 mg/kg^[1] Not Available

camphorquinone

IRRITATION TOXICITY Not Available Not Available

Legend:

DIURETHANE

Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

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 rarety as urticaria or Quincke's oedema. The pathogenesis of contact eczema involva 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.

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 imitant. 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 diagnoof RADS, RADS (or asthma) following an imitating 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

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

Issue Date: 18/03/2016 Print Date: 31/03/2016

seT Capsules and seT PP Syringes

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	< □	Carcinogenicity	10
Skin Irritation/Corrosion	~	Reproductivity	8
Serious Eye Damage/Irritation	~	STOT - Single Exposure	S
Respiratory or Skin sensitisation	C	STOT - Repeated Exposure	©
Mutagenicity	8	Aspiration Hazard	8
			- 1000 110

Legend:

X − Data available but does not fill the criteria for classification
 ✓ − Data required to make classification available

- Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

12.1. 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	96	Fish	230.775mg/L	3
Legend:	Extracted from 1. I	UCLID Toxicity Data 2. Europe ECH	A Registered Substances - Ecotoxicological	Information - Aquatic Toxicity 3.	EPIWIN Suite V3.1

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.

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
camphorquinone	HIGH	HIGH

12.3. Bioaccumulative potential

Ingredient	Bioaccumulation	
1979	the account was a constraint of the constraint o	
camphorquinone	LOW (LogKOW = 1.52)	

12.4. Mobility in soil

Ingredient	Mobility	
camphorquinone	LOW (KOC = 12.6)	
	and the same is not a first than the same of the same	

12.5.Results of PBT and vPvB assessment

	Р	В	Т	
Relevant available data	Not Available	Not Available	Not Available	
PBT Criteria fulfilled?	Not Available	Not Available	Not Available	

12.6. Other adverse effects

No data available

Waste treat Sewage dis

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. 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.
aste treatment options	Not Available
wage disposal options	Not Available

SECTION 14 TRANSPORT INFORMATION

Issue Date: 18/03/2016 Page 9 of 11 seT Capsules and seT PP Syringes

Print Date: 31/03/2016

Labels Required Marine Pollutant NO HAZCHEM Not Applicable Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS 14.1.UN number Not Applicable 14.2.Packing group Not Applicable 14.3.UN proper shipping Not Applicable 14.4.Environmental hazard Not Applicable Class Not Applicable 14.5. Transport hazard class(es) Subrisk Not Applicable Hazard identification (Kemler) Not Applicable Classification code Not Applicable 14.6. Special precautions for Hazard Label Not Applicable Special provisions Not Applicable Limited quantity Not Applicable Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS 14.1. UN number Not Applicable Not Applicable 14.2. Packing group 14.3. UN proper shipping Not Applicable Not Applicable 14.4. Environmental hazard ICAO/IATA Class Not Applicable 14.5. Transport hazard ICAO / IATA Subrisk Not Applicable class(es) **ERG Code** Not Applicable Special provisions Not Applicable Cargo Only Packing Instructions Not Applicable Cargo Only Maximum Qty / Pack Not Applicable 14.6. Special precautions for Passenger and Cargo Packing Instructions Not Applicable Passenger and Cargo Maximum Qty / Pack Not Applicable Passenger and Cargo Limited Quantity Packing Instructions Not Applicable Passenger and Cargo Limited Maximum Qty / Pack Not Applicable Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS 14.1. UN number Not Applicable 14.2. Packing group Not Applicable 14.3. UN proper shipping Not Applicable 14.4. Environmental hazard Not Applicable IMDG Class 14.5. Transport hazard Not Applicable class(es) IMDG Subrisk Not Applicable **EMS Number** Not Applicable Special provisions Not Applicable Limited Quantities Not Applicable Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS 14.1. UN number Not Applicable 14.2. Packing group Not Applicable 14.3. UN proper shipping Not Applicable 14.4. Environmental hazard Not Applicable 14.5. Transport hazard Not Applicable class(es) Classification code Not Applicable 14.6. Special precautions for Special provisions Not Applicable

Page 10 of 11

seT Capsules and seT PP Syringes

Issue Date: 18/03/2016 Print Date: 31/03/2016

Limited quantity Not Applicable Equipment required Not Applicable Not Applicable Fire cones number

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

Not Applicable

SECTION 15 REGULATORY INFORMATION

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

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

EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles European Customs Inventory of Chemical Substances ECICS (English)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

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

European Customs Inventory of Chemical Substances ECICS (English)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : 67/548/EEC, 1999/45/EC, 98/24/EC, 92/85/EC, 94/33/EC, 91/689/EEC, 1999/13/EC, Commission Regulation (EU) 2015/830, Regulation (EC) No 1272/2008 and their amendments as well as the following British legislation: - The Control of Substances Hazardous to Health Regulations (COSHH) 2002 - COSHH Essentials - The Management of Health and Safety at Work Regulations 1999

15.2. Chemical safety assessment

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

ECHA SUMMARY

	CAS number	Index No	ECHA Dossier	
fiurethane dimethacrylate	72869-86-4	Not Available	01-2119408252-52-XXXX	11. 10. 10. 10. 10. 10. 10. 10. 10. 10.
Harmonisation (C&L nventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
	Aquatic Chronic 3, Skin Sens. 1		Wng	H317
	Aquatic Chronic 3, Skin Sens. 1, Eye 2, STOT SE 3	Irrit. 2, Aquatic Chronic 2, Not Classified, S	kin Irrit. Wng, GHS07, GHS09	H317, H319, H315, H336
larmonisation Code 1 = The m	nost prevalent classification. Harmonisation	Code 2 = The most severe classification.	NO. CONTRACTOR OF THE PARTY OF	
ngredient	CAS number	Index No	ECHA Dossier	
camphorquinone	10373-78-1	Not Available	Not Available	
larmonisation (C&L oventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
	Acute Tox. 4, Eye Irrit. 2, Resp. Sens.	1, Skin Irrit. 2, STOT SE 3	GHS07, GHS08, Dgr, Wng	H302, H319, H334, H315, H335
	Acute Tox. 4, Eye Irrit. 2, Resp. Sens.	1, Skin Sens. 1, Skin Imit. 2, STOT SE 3,	GHS08, Dgr, Wng, GHS07	H302, H319, H334, H317, H315,
			GH300, Dgi, Wilg, GH307	H335
548	Not Classified nost prevalent classification. Harmonisation	Code 2 = The most severe classification.	Ghado, Dgi, Wilg, Ghad/	H335
Harmonisation Code 1 = The m	Not Classified	Code 2 = The most severe classification.	GHOU, Dgi, Wilg, GHOU	H335
Harmonisation Code 1 = The m	Not Classified nost prevalent classification. Harmonisation	Code 2 = The most severe classification.	Ghoue, Dgi, Ving, Ghou?	H335
larmonisation Code 1 = The m lational Inventory ustralia - AICS	Not Classified nost prevalent classification. Harmonisation Status	Code 2 = The most severe classification.	Grade, Dgi, Ving, Gradi	H335
larmonisation Code 1 = The m lational Inventory sustralia - AICS canada - DSL	Not Classified nost prevalent classification. Harmonisation Status Y	Code 2 = The most severe classification.	Graue, Dgi, ving, Grau/	H335
larmonisation Code 1 = The m lational Inventory sustralia - AICS canada - DSL canada - NDSL	Not Classified nost prevalent classification. Harmonisation Status Y N (diurethane dimethacrylate)	Code 2 = The most severe classification.	Grade, Dgi, Ving, Gradi	H335
larmonisation Code 1 = The m lational Inventory sustralia - AICS canada - DSL canada - NDSL china - IECSC surope - EINEC / ELINCS /	Not Classified nost prevalent classification. Harmonisation Status Y N (diurethane dimethacrylate)	Code 2 = The most severe classification.	Gnoue, Dgi, ving, Gnou?	H335
larmonisation Code 1 = The m lational Inventory Justralia - AICS Janada - DSL Janada - NDSL Janada - NDSL Janada - EICSC Janada - EINEC / ELINCS / Janada - EINEC / ELINCS /	Not Classified nost prevalent classification. Harmonisation Status Y N (diurethane dimethacrylate) Y		Group, Dyi, Ving, Group	H335
larmonisation Code 1 = The m lational Inventory ustralia - AICS ranada - DSL ranada - NDSL rhina - IECSC urope - EINEC / ELINCS / LP	Not Classified nost prevalent classification. Harmonisation Status Y N (diurethane dimethacrylate) Y Y		Gnood, Dgi, Ving, Gnoo/	H335
lational Inventory Lation	Not Classified nost prevalent classification. Harmonisation Status Y N (diurethane dimethacrylate) Y Y N (diurethane dimethacrylate; campho		Group, Dyi, Ving, Group	H335
lational Inventory Jational Inventory Jation	Not Classified nost prevalent classification. Harmonisation Status Y N (diurethane dimethacrylate) Y Y N (diurethane dimethacrylate; campho N (camphorquinone)		Group, Dyl, Ving, Group	H335
Australia - AICS Canada - DSL Canada - NDSL China - IECSC Europe - EINEC / ELINCS / NLP Japan - ENCS Korea - KECI New Zealand - NZIoC Philippines - PICCS JSA - TSCA	Not Classified nost prevalent classification. Harmonisation Status Y N (diurethane dimethacrylate) Y Y N (diurethane dimethacrylate; campho N (camphorquinone)		Group, Dyl, Ving, Group	H335

SECTION 16 OTHER INFORMATION

Full text Risk and Haza	ard codes
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H302	Hamful if swallowed.			
 H317	May cause an allergic sk		 	
	,			

Version No: 5.1,1.1 Page 11 of 11 Issue Date: 18/03/2016 Print Date: 31/03/2016

seT Capsules and seT PP Syringes

H319	Causes serious eye imitation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
R22	Harmful if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R43	May cause SENSITISATION by skin contact.

Other information

DSD / DPD tabel elements



Relevant risk statements are found in section 2.1

Indication(s) of danger	X
SAFETY ADVICE	
S02	Keep out of reach of children.
S23	Do not breathe gas/fumes/vapour/spray.
S26	In case of contact with eyes, rinse with plenty of water and contact Doctor or Poisons Information Centre.
S35	This material and its container must be disposed of in a safe way.
S37	Wear suitable gloves.
S39	Wear eye/face protection.
S40	To clean the floor and all objects contaminated by this material, use water and detergent.
S46	If swallowed, seek medical advice immediately and show this container or label.
S56	Dispose of this material and its container at hazardous or special waste collection point.
S64	If swallowed, rinse mouth with water (only if the person is conscious).

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.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals EN 133 Respiratory protective devices

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

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
TLY: 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:

Prepared by: SDI Limited 3-15 Brunsdon Street, Bayswater Victoria, 3153, Australia Phone Number: +61 3 8727 7111

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Department issuing SDS: Research and Development
Contact: Technical Director

end of SDS