

seT Capsules and seT PP Syringes

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

Product name	seT Capsules and seT PP Syringes		
Synonyms	Not Available		()(10) () ()(10) () ()(10)
Other means of identification	Not Available		and the second of the second o
2. Relevant identified us	es of the substance or mixture and us	ses advised against	
Relevant identified uses	Professional dental use: Cementing of composit	te, ceramic and metallic indirect restorations.	the second of th
Uses advised against	Not Applicable		
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
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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.	THE RESIDENCE OF THE PARTY OF T	
Address	1279 Hamilton Parkway IL Itasca 60143 United S	tates	and the second of the second o
Telephone	+1 630 361 9200 (Business hours)		and promiting to the state of t
Fax	Not Available		
Website	Not Available		And the second s
Email	USA.Canada@sdi.com.au		
4. Emergency telephone	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		The second secon
Emergency telephone numbers	+61 3 8727 7111	25 C C C C C C C C C C C C C C C C C C C	and the statement throughout the statement of a second second second second second
Other emergency telephone numbers	Not Available		and second to the fig. and second the Control of th
		the second secon	

2.1. Classification of the substance or mixture

Considered a dangerous mixture according to directive 1999/45/EC, Reg. (EC) No 1272/2008 (if applicable) and their amendments. Not classified as Dangerous Goods for transport purposes.

DSD classification	In case of mixtures, classification has been prepared by following DPD (Directive 1999/45/EC) and CLP Regulation (EC) No 1272/2008 regulations
DPD classification ^[1]	R37/38 Imitating to respiratory system and skin.
DPD classification ***	R41 Risk of serious damage to eyes.
P. SEE WHILE COURT IN THREAT, without comments or comment	

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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 imitation)

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







SIGNAL WORD	DANGER					
Hazard statement(s)		•••••	•••••••••	••••••	 	
H315	Causes skin irritation.					
H318	Causes serious eye damage.				 1 101807 17 -4	
H335	May cause respiratory imitation.					
Supplementary statement(s						
EUH208	Contains diurethane dimethacrylate, camphorquinone. May produce a	n allergic reaction.				
Precautionary statement(s)	Prevention					
P271	Use only outdoors or in a well-ventilated area.					
P280	Wear protective gloves/protective dothing/eye protection/face protection	on.		W. T. T. C		15-11-5
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.					

Precautionary statement(s) Response

	En la Principal de la Contraction de la Contract				
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact le	enses,	if present	and e	asy to do
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 irritation occurs: Get medical advice/attention.				
 P362+P364	Take off contaminated clothing and wash it before reuse.				

Precautionary statement(s) Storage

P405	Store locked up.			
P403+P233	Store in a well-ventilated place. Keep of	ontainer tigh	tty dose	d.

Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.

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

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]

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Not Available Not Available Not Available Not Available Not Available		<20	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]
	Legend:	Classificati Classificati	on by vendor; 2. Classifi on drawn from C&L		Prective 67/548/EEC - Annex I ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

SECTION 4 FIRST AID MEASURES

4.1. Description	of first	t aid measures

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. 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. If furnes or combustion products are inhaled remove from contaminated area. General 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. 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.

If skin contact occurs:

If this product comes in contact with the eyes: **Eye Contact**

- Immediately hold eyelids apart and flush the eye continuously with running water.
 Ensure complete imgation 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.
- If furnes or combustion products are inhaled remove from contaminated area.
- If swallowed do NOT induce vomiting.
 If womiting 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.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

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

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Inhalation

Ingestion

5.1. Extinguishing media

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 dothing with breathing apparatus.
- Prevent, by any means available, spillage from entering drains or water course. Fight fire from a safe distance, with adequate cover.
- Fire Fighting
 - 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. Cool fire exposed containers with water spray from a protected location.

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- If safe to do so, remove containers from path of fire.
- 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 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 emit poisonous furnes. May emit corrosive

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

Minor Spills

- 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 verniculit
- 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. Use in a well-ventilated area.
- Prevent concentration in hollows and sumps
- DO NOT enter confined spaces until atmosphere has been checked.

 Avoid smoking, naked lights or ignition sources.
- Avoid contact with incompatible materials
- Safe handling When handling, DO NOT eat, drink or smol
 - 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

 - Votr courses actual the tenthered 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.

Fire and explosi protection

See section 5

Store in a dry and well ventilated-area, away from heat and sunlight.

Other information

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		60 mg/m3	660 mg/m	3	4000 mg/m3
Ingredient	Original IDLH			Revised IDLH		
fluoroaluminosilicate glass	Not Available			Not Available		The second secon
diurethane dimethacrylate	Not Available			Not Available		
acidic monomer	Not Available			Not Available		0.0 to 0.0 mb 0.0 to 0.0 m
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 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.

Process controls which involve changing the way a job activity of 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 certeal exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in special circumstances. It 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.

Type of Contaminant:	Air Speed:	
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.

8.2.2. Personal protection

8.2.1. Appropriate engineering controls











Safety glasses with side shields. Chemical goggles.

Eye and face protection

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of 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 irrigation immediately and remove contact lens as soon as practicable. Lens should be removed

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	 at the first signs of eye redness or irritation - lens should be removed Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent 	ent]	ter workers have was	ied riands moroughly, [C.	DC NIOS
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	A RADIAN SERVICE CONTRACT			
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		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 characteristic of	lour, 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
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

9.2. Other information

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 polymerisation will not occur.			(100) (100)	
10.3. Possibility of hazardous reactions	See section 7.2				
10.4. Conditions to avoid	See section 7.2	24			

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10.5, Incompatible materials

See section 7.2

10.6. Hazardous decomposition products

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 injustion by first removing or neutralising the initiant 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 irritation 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 vorniting. In an occupational setting however, ingestion of insignificant s 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 present twenty-four hours or more after the end of the exposure period. Skin imitation 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 (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular cedema of the spongy la (spongiosis) and intracellular oedema of the epidermis

terial may accentuate any pre-existing dermatitis condition

Open cuts, abraded or imitated skin 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.

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 irritants 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.

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TOXICITY Not Available IRRITATION

TOXICITY diurethane dimethacrylate

Legend:

IRRITATION

Oral (rat) LD50: >5000 mg/kg[1]

camphorquinone

TOXICITY Not Available IRRITATION Not Available

1. 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 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 strong sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test action 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 initiating 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 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 (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

Ov (unavious): Es (aeculo) beariny adylates are generally or low toxicity

UV/EB acrylates are divided into two groups; "steromeric" 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.

ymeric acrylates cannot be described by an idealised structure and may differ fundamentally between various suppliers; they are of relatively high ar 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

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. The following mormation reters to contact earliergers as a group and may not be appeared to use process.

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticand 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

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	for contact with it a sensitising potenti reaction in more the	are equally important. A weakly sensi	ot simply determined by its sensitisation po titising substance which is widely distribute to contact. From a clinical point of view, su rature search.	d can be a more important allerge	en than one with stronger
Acute Toxicity	S:		Carcinogenicity	10	
Skin Irritation/Corrosion	~		Reproductivity	6	
Serious Eye Damage/irritation	~		STOT - Single Exposure	\$	The state of the s
Respiratory or Skin sensitisation	8		STOT - Repeated Exposure	G	
Mutagenicity	G		Aspiration Hazard	0	
SECTION 12 ECOLOGIC	CAL INFORMATI	ON		Data available but does not to Data required to make classi Data Not Available to make classi	fication available
12.1. Toxicity	80/808				
Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
diurethane dimethacrylate	EC50	48	Crustacea	>1.2mg/L	2
diurethane dimethacodate	EC50	70	Aless or alberton of aleste		

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
amphorquinone	EC50	96	Algae or other aquatic plants	1054.236mg/L	3
amphorquinone	LC50	96	Fish	230.775mg/L	. 3
Legend:	Aquatic Toxicity Da		A Registered Substances - Ecotoxicological database - Aquatic Toxicity Data 5. ECETOC		

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

				the second secon	
12.3. Bioaccum	nulative potential				
Ingredient	Bioaccumulation				

camphorquinone

12.4. Mobility in soil						
Ingredient	Mobility					

12.5.Results of PBT and vPvB assessment

	Р	В	T
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

camphorquinone

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.

LOW (LogKOW = 1.52)

LOW (KOC = 12.6)

Waste treatment options Not Available Sewage disposal options

SECTION 14 TRANSPORT INFORMATION

seT Capsules and seT PP Syringes

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 14.2. Packing group Not Applicable 14.3. UN proper shipping Not Applicable 14.4. Environmental hazard Not Applicable ICAO/IATA Class Not Applicable 14.5. Transport hazard ICAO / IATA Subrisk Not Applicable 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 Not Applicable 14.5. Transport hazard class(es) IMDG Subrisk Not Applicable EMS Number Not Applicable 14.6. Special precautions for 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 Not Applicable Not Applicable Classification code 14.6. Special precautions for Special provisions Not Applicable

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

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

Ingredient	CAS number	Index No	ECHA Dossier	
diurethane dimethacrylate	72869-86-4	Not Available	01-2119408252-52-XXXX	
Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)		Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Aquatic Chronic 3, Skin Sens. 1	COLUMN TO THE COLUMN TO THE WAY OF THE COLUMN TO THE COLUM	Wng	H317
2	Aquatic Chronic 3, Skin Sens. 1, Eye Irrit. 2, STOT SE 3	2, Aquatic Chronic 2, Not Classified,	Skin Irrit. Wng, GHS07, GHS09	H317, H319, H315, H335
Harmonisation Code 1 = The r	most prevalent classification. Harmonisation Coc	de 2 = The most severe classification.		
ngredient	CAS number	Index No	ECHA Dossier	
camphorquinone	10373-78-1	Not Available	Not Available	the control of the co
Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)		Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Acute Tox. 4, Eye Irrit. 2, Resp. Sens. 1, Si	kin Imit. 2, STOT SE 3	GHS07, GHS08, Dgr, Wng	H302, H319, H334, H315, H335
2	Acute Tox. 4, Eye Irrit. 2, Resp. Sens. 1, Si Not Classified	cin Sens. 1, Skin Irrit. 2, STOT SE 3,	GHS08, Dgr, Wng, GHS07	H302, H319, H334, H317, H315, H335
Harmonisation Code 1 = The r	most prevalent classification. Harmonisation Coo	de 2 = The most severe classification.		
National Inventory	Status			
Australia - AICS	Υ	the section is the section of the se	Section 19 and the second section 19 and 19	Marie in contract that he was a single-state of the
Canada - DSL	N (diurethane dimethacrylate)			
Canada - NDSL	Y			5 mm (5 mm) = 1 mm (1 mm)
China - IECSC	Y			
Europe - EINEC / ELINCS /	Y		CONTRACTOR STATE AND ADDRESS OF THE	The second secon
Japan - ENCS	N (diurethane dimethacrylate; camphorquir	none)	The state of the s	
Korea - KECI	N (camphorquinone)			
New Zealand - NZIoC	Y		the same of the same	
Philippines - PICCS	Y		and the second of the second o	
JSA - TSCA	Υ -			
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredi		I delle a la company company to access to the first company of	

SECTION 16 OTHER INFORMATION

Full text	Risk	and	Hazard	codes

	H302	Harmful if swallowed.
S. S. SHILL BLOW HELD TO THE	H317	May cause an allergic skin reaction.

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Н319	Causes serious eye imitation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	The second secon
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 label elements



Relevant risk statements are found in section 2.1

Indication(s) of danger	XI
SAFETY ADVICE	· · · · · · · · · · · · · · · · · · ·
S02	Keep out of reach of children.
523	Do not breathe gas/furnes/vapour/spray.
S26	In case of contact with eyes, rinse with plenty of water and contact Doctor or Poisons Information Centre.
\$35	This material and its container must be disposed of in a safe way.
\$37	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.
\$56	Dispose of this material and its container at hazardous or special waste collection point.
\$64	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

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

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 Contact: Technical Director

end of SDS