

SDI Limited

Version No: 6.1.1.1 Safety Data Sheet (Conforms to Regulations (EC) No 2015/830) Issue Date: 28/01/2016 Print Date: 23/03/2016 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	Dipping Resin
Synonyms	Not Available
Other means of identification	Not Available

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Professional dental use: For modelling resin-based dental material.			
Uses advised against	Not Applicable			

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 Rua Dr. Virgilio de Carvalho Pinto, 612 São Australia Paulo CEP 05415-020 Brazil		Hansestrasse 85 Cologne D-51149 Germany			
Telephone	+61 3 8727 7111 (Business Hours)	+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				
Email	info@sdi.com.au	brasil@sdi.com.au	germany@sdi.com.au			
Registered company name	B 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					

1.4. 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				
Emergency telephone numbers	+61 3 8727 7111				
Other emergency telephone numbers	Not Available				

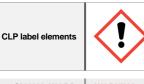
SECTION 2 HAZARDS IDENTIFICATION

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]	R36/37/38 Irritating to eyes, respiratory system and skin.					
	R43 May cause SENSITISATION by skin contact.					

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
Classification according to regulation (EC) No 1272/2008 [CLP] ^[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)
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
2.2. Label elements	



May cause an allergic skin reaction.

May cause respiratory irritation.

SIGNAL WORD WARNING Hazard statement(s) Causes skin irritation. H315 Causes skin irritation. H319 Causes serious eye irritation.

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

H317

H335

P271	lse only outdoors or in a well-ventilated area.			
P280	r protective gloves/protective clothing/eye protection/face protection.			
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.			
P272	Contaminated work clothing should not be allowed out of the workplace.			

Precautionary statement(s) Response

P302+P352	F ON SKIN: Wash with plenty of water and soap.				
P305+P351+P338	N EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				
P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.				
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.				
P337+P313	If eye irritation persists: Get medical advice/attention.				
P362+P364	Take off contaminated clothing and wash it before reuse.				
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.				

Precautionary statement(s) Storage

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

Precautionary statement(s) Disposal

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

Ingestion may produce health damage*.

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]
1.72869-86-4 2.276-957-5 3.Not Available 4.01-2119408252-52-XXXX	50-70	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]

Continued...

1.Not Available 2.Not Available 3.Not Available 4.Not Available	20-40	methacrylate component	Not Applicable	Not Applicable	
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 4. Classification drawn from C&L			

SECTION 4 FIRST AID MEASURES

4.1. Description of first aid measures

General	 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 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. If fumes or combustion products are inhaled remove from contaminated area. Seek medical attention. Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.
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 scap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Seek medical attention.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. Seek medical attention.

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

5.1. Extinguishing media

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
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5.3. Advice for firefighters

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Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. 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. 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	 Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). May emit acrid smoke.

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Dipping Resin

Mists containing combustible materials may be explosive.
 Combustion products include; carbon dioxide (CO2) other pyrolysis products typical of burning organic materialMay emit clouds of acrid smokeMay emit poisonous fumes. May emit corrosive fumes.

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

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.

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 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.
Fire and explosion	
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 10 and 25 deg. C.
	Store between 10 and 25 deg. C.

7.2. Conditions for safe storage, including any incompatibilities

Suitable container	 DO NOT repack. Use containers supplied by manufacturer only. Check that containers are clearly labelled and free from leaks
Storage incompatibility	 Avoid storage with reducing agents. Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.
7.2 Specific and use(a)	

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)

L	INGREDIENT DATA	

Source	Ingredient	Material name	TWA	4	STEL		Peak		Notes
Not Available	Not Available	Not Available	Not A	Available	Not Avail	able	Not Available		Not Available
EMERGENCY LIMITS									
Ingredient	Material name	Material name		TEEL-1 TEEL-2		TEEL-3		3	
diurethane dimethacrylate	Diurethane dimethacryla	Diurethane dimethacrylate		60 mg/m3	660 mg/m3			4000 m	ng/m3
Ingredient	Original IDLH	Original IDLH			Revised II	DLH			
diurethane dimethacrylate	Not Available	Not Available			Not Available				
methacrylate component	Not Available				Not Availat	ble			

MATERIAL DATA

8.2. Exposure controls

	Engineering controls are used to remove a hazard or place a barrier between the v effective in protecting workers and will typically be independent of worker interaction. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done t Enclosure and/or isolation of emission source which keeps a selected hazard "phys	ons to provide this h to reduce the risk. sically" away from t	igh level of protection. he worker and ventilation that stra	tegically "adds" and		
	"removes" air in the work environment. Ventilation can remove or dilute an air conta the particular process and chemical or contaminant in use.	aminant if designed	properly. The design of a ventilation	on system must match		
	Employers may need to use multiple types of controls to prevent employee overexpo	osure.				
	General exhaust is adequate under normal operating conditions. Local exhaust ver exists, wear approved respirator. Supplied-air type respirator may be required in s Provide adequate ventilation in warehouses and enclosed storage areas. Air conta which, in turn, determine the "capture velocities" of fresh circulating air required to	special circumstance aminants generated	es. Correct fit is essential to ensu	re adequate protection.		
	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)		
8.2.1. Appropriate	aerosols, fumes from pouring operations, intermittent container filling, low speed acid fumes, pickling (released at low velocity into zone of active generation)	conveyer transfers	s, welding, spray drift, plating	0.5-1 m/s (100-200 f/min.)		
engineering controls	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crus zone of rapid air motion)	sher dusts, gas dis	charge (active generation into	1-2.5 m/s (200-500 f/min.)		
	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (release 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						
Eye and face protection	 Safety glasses with side shields. 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 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					
Hands/feet protection	 Rubber Gloves Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber 					
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	-	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 Clear, pale yellow slightly viscous liquid with ester like odour.

Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not 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)	Not Available	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	 Product is considered stable under normal handling conditions Polymerisation may occur at elevated temperatures. Polymerisation may be accompanied by generation of heat as exotherm. Process is self accelerating as heating causes more rapid polymerisation. Exotherm may cause boiling with generation of acrid, toxic and flammable vapour. Polymerisation and exotherm may be violent if contamination with strong acids, amines or catalysts occurs. Polymerisation may occur if stabilising inhibitor becomes depleted by aging. Stabilising inhibitor requires dissolved oxygen to be present in liquid for effective action. Specific storage requirements must be met for stability on ageing and transport.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2

10.6. Hazardous decomposition products

SECTION 11 TOXICOLOGICAL INFORMATION

See section 5.3

11.1. Information on toxicological effects

Inhaled	inhalation. In contrast to most organs, the lung is able to respon damage. The repair process, which initially evolved to protect m resulting in the impairment of gas exchange, the primary function the recruitment and activation of many cell types, mainly derived Inhalation hazard is increased at higher temperatures.	rial produces irritation of the respiratory system, in a substantial number of individuals, following d to a chemical insult by first removing or neutralising the irritant and then repairing the ammalian lungs from foreign matter and antigens, may however, produce further lung damage in of the lungs. Respiratory tract irritation often results in an inflammatory response involving from the vascular system. be chest and nasal irritation with coughing, sneezing, headache and even nausea.
Ingestion	Accidental ingestion of the material may be damaging to the heat	Ith of the individual.
Skin Contact	direct contact, and/or produces significant inflammation when an twenty-four hours or more after the end of the exposure period. If form of contact dermatitis (nonallergic). The dermatitis is often or blistering (vesiculation), scaling and thickening of the epidermis (spongiosis) and intracellular oedema of the epidermis. The material may accentuate any pre-existing dermatitis conditi Open cuts, abraded or irritated skin should not be exposed to th	s material s, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the
Eye	ocular lesions which are present twenty-four hours or more afte	aracterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis);
Chronic	Practical experience shows that skin contact with the material is of producing a positive response in experimental animals.	of the airways involving difficult breathing and related systemic problems. capable either of inducing a sensitisation reaction in a substantial number of individuals, and/o nal exposure may produce cumulative health effects involving organs or biochemical systems.
Dipping Resin	TOXICITY Not Available	IRRITATION Not Available
diurethane dimethacrylate	TOXICITY Oral (rat) LD50: >5000 mg/kg ^[1]	IRRITATION Not Available
Legend:	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 grou Contact allergies quickly manifest themselves as contact ecze a cell-mediated (T lymphocytes) immune reaction of the delay reactions. The significance of the contact allergen is not simp for contact with it are equally important. A weakly sensitising s sensitising potential with which few individuals come into cont reaction in more than 1% of the persons tested.	rma, more rarely as urticaria or Quin ed type. Other allergic skin reactions by determined by its sensitisation pot substance which is widely distributed	cke's oedema. The pathogenesis of contact eczema involves s, e.g. contact urticaria, involve antibody-mediated immune tential: the distribution of the substance and the opportunities I can be a more important allergen than one with stronger
DIURETHANE DIMETHACRYLATE	Asthma-like symptoms may continue for months or even years reactive airways dysfunction syndrome (RADS) which can or of RADS include the absence of preceding respiratory diseass to hours of a documented exposure to the irritant. A reversible on methacholine challenge testing and the lack of minimal lym of RADS. RADS (or asthma) following an irritating inhalation irritating substance. Industrial bronchitis, on the other hand, is (often particulate in nature) and is completely reversible after r UV (ultraviolet)/ EB (electron beam) acrylates are generally o UV/EB acrylates are divided into two groups; "stenomeric" an The first group consists of well-defined acrylates which can be narrow weight distribution profile. The eurymeric acrylates cannot be described by an idealised of molecular weigh and possess a wide weight distribution. Stenomeric acrylates are usually more hazardous than the eu exchange of toxicity data - this allows more accurate classific The stenomerics cannot be classified as a group; they exhibit Where no "official" classification for acrylates and methacrylate evidence. For example Monalkyl or monoarylesters of acrylic acids should be classified * Possible carcinogen; possible sensitizer; possible irreversil	cur following exposure to high levels e, in a non-atopic individual, with abr airflow pattern, on spirometry, with t nphocytic inflammation, without eosin is an infrequent disorder with rates r is a disorder that occurs as result of exposure ceases. The disorder is ch f low toxicity d "eurymeric" acrylates. e described by a simple idealised ch structure and may differ fundamental rymeric substances. Stenomeric acr ation. substantial variation. es exists, there has been cautious a ed as R36/37/38 and R51/53 assified as R36/37/38	s of highly irritating compound. Key criteria for the diagnosis upt onset of persistent asthma-like symptoms within minutes he presence of moderate to severe bronchial hyperreactivity nophilia, have also been included in the criteria for diagnosis elated to the concentration of and duration of exposure to the exposure due to high concentrations of irritating substance aracterised by dyspnea, cough and mucus production. emical;they are low molecular weight species with a very ly between various suppliers; they are of relatively high ylates are also well defined which allows comparison and
Acute Toxicity	0	Carcinogenicity	0
Skin Irritation/Corrosion	 ✓ ✓ 	Reproductivity	0
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	0

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Respiratory or Skin sensitisation	~	STOT - Repeated Exposure	\otimes
Mutagenicity	0	Aspiration Hazard	0
			 Data available but does not fill the criteria for classification Data required to make classification available

S – 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
Legend:	Aquatic Toxicity Data (Es	, , ,	stered Substances - Ecotoxicological Information e - Aquatic Toxicity Data 5. ECETOC Aquatic Ha a 8. Vendor Data	, ,	

DO NOT discharge into sewer or waterways.

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

12.4. Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

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

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.
Waste treatment options	Not Available
Sewage disposal options	Not Available

SECTION 14 TRANSPORT INFORMATION

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Labels Required	
Marine Pollutant	NO
HAZCHEM	Not Applicable
Land transport (ADR): NOT	T REGULATED FOR TRANSPORT OF DANGEROUS GOODS
14.1.UN number	Not Applicable
14.2.Packing group	Not Applicable
14.3.UN proper shipping name	Not Applicable
14.4.Environmental hazard	Not Applicable

14.5. Transport hazard class(es)	Class Not Applicable Subrisk Not Applicable	
	Hazard identification (Kemler)	Not Applicable
	Classification code	Not Applicable
14.6. Special precautions for user	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 name	Not Applicable	
14.4. Environmental hazard	Not Applicable	
14.5. Transport hazard class(es)	ICAO/IATA Class Not Applicable ICAO / IATA Subrisk Not Applicable ERG Code Not Applicable	
14.6. Special precautions for user	Special provisions Cargo Only Packing Instructions Cargo Only Maximum Qty / Pack Passenger and Cargo Packing Instructions Passenger and Cargo Maximum Qty / Pack Passenger and Cargo Limited Quantity Packing Instructions Passenger and Cargo Limited Maximum Qty / Pack	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable 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 name	Not Applicable
14.4. Environmental hazard	Not Applicable
14.5. Transport hazard class(es)	IMDG Class Not Applicable IMDG Subrisk Not Applicable
14.6. Special precautions for user	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 name	Not Applicable
14.4. Environmental hazard	Not Applicable
14.5. Transport hazard class(es)	Not Applicable Not Applicable
	Classification code Not Applicable
	Special provisions Not Applicable
14.6. Special precautions for user	Limited quantity Not Applicable
	Equipment required Not Applicable
	Fire cones number Not Applicable

Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

SECTION 15 REGULATORY INFORMATION

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)

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		Wng	H317
2	Aquatic Chronic 3, Skin Sens. 1, Eye Irrit. 2 2, STOT SE 3	, Aquatic Chronic 2, Not Classified, Skin Irrit.	Wng, GHS07, GHS09	H317, H319, H315, H335

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

National Inventory	Status
Australia - AICS	Υ
Canada - DSL	N (diurethane dimethacrylate)
Canada - NDSL	Υ
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (diurethane dimethacrylate)
Korea - KECI	Υ
New Zealand - NZIoC	Υ
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

Full text Risk and Hazard codes

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.
S23	Do not breathe gas/fumes/vapour/spray.
S24	Avoid contact with skin.
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.
\$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.
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

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 TEEL: Temporary Emergency Exposure Limit, IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL: No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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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Department issuing SDS: Research and Development

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