

Material Safety Data Sheet Cover-Sheet – This page provides additional New Zealand specific information for this product and must be read in conjunction with the Safety Data Sheet (SDS) attached

Product Name:	Alloybond Kit (Primer, Base & Catalyst)
Manufacturer:	SDI
SDS Expiry:	1 November 2024
Supplier Details:	Henry Schein New Zealand 23 William Pickering Drive, Albany PO Box 101 140, North Shore, Auckland 0745 Ph. 0800 808 855 www.henryschein.co.nz
Emergency Contacts:	Poisons/Hazardous Chemical Info Centre – 0800POISON/0800764766 (24 Hours) Phone 111 for Fire, Ambulance or Police
HSNO Class/Category:	3/6/9
HSNO Group Standard:	Dental Products Flammable Group Standard 2020 HSR002556
Statements/Pictograms:	As per attached Safety Data Sheet (SDS)
Date Prepared:	This coversheet was prepared - May 2021

This SDS coversheet has been produced by Henry Schein NZ and has been prepared in accordance with NZ EPA advice on making overseas SDS compliant to HSNO Act. The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specifications of the product. Users must satisfy that the product is entirely suitable for their purpose. The SDS and this coversheet may be revised from time to time, please ensure you have a current copy.





# ALLOYBOND BASE AND ALLOYBOND CATALYST SDI Limited

Chemwatch: 5195-68

Version No: 9.1.3.1

Chemwatch Hazard Alert Code: 2

Issue Date: 01/11/2019

Print Date: 05/05/2021 L.GHS.AUS.EN

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements
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# SECTION 1 Identification of the substance / mixture and of the company / undertaking

#### **Product Identifier**

Product name	ALLOYBOND BASE AND ALLOYBOND CATALYST
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	Not Available

# Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	For bonding of amalgam to tooth surfaces. When used with Alloybond primer.
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# Details of the supplier of the safety data sheet

Registered company name	SDI Limited
Address	3-15 Brunsdon Street Bayswater VIC 3153 Australia
Telephone	+61 3 8727 7111 (Business Hours)
Fax	+61 3 8727 7222
Website	www.sdi.com.au
Email	info@sdi.com.au

# Emergency telephone number

Association / Organisation	SDI Limited
Emergency telephone numbers	+61 3 8727 7111
Other emergency telephone numbers	ray.cahill@sdi.com.au

# **SECTION 2 Hazards identification**

# Classification of the substance or mixture

Poisons Schedule	Not Applicable
Classification <sup>[1]</sup>	Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Skin Sensitizer Category 1, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), Acute Aquatic Hazard Category 2, Chronic Aquatic Hazard Category 2
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

#### Label elements

Hazard pictogram(s)	
Signal word	Warning

# Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

#### Precautionary statement(s) Prevention

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P261	Avoid breathing mist/vapours/spray.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.

#### Precautionary statement(s) Response

P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/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.
P391	Collect spillage.
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 to authorised hazardous or special waste collection point in accordance with any local regulation.

# **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

# Mixtures

CAS No	%[weight] Name		
Not Available		alloybond base	
72869-86-4	60-70	diurethane dimethacrylate	
72829-09-5	20-30	0 <u>1,12-dodecanediol dimethacrylate</u>	
Not Available	alloybond catalyst		
72869-86-4	65-70 diurethane dimethacrylate		
109-16-0	25-30 <u>triethylene glycol dimethacrylate</u>		
Legend: 1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available			

# **SECTION 4 First aid measures**

#### Description of first aid measures

Eye Contact

- If this product comes in contact with the eyes: • Wash out immediately with fresh running water.
  - Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally

	<ul> <li>lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Seek medical attention.</li> </ul>
Ingestion	Seek medical attention.

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5 Firefighting measures**

#### Extinguishing media

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

# Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contact with incompatible materials.
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# Advice for firefighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
Fire/Explosion Hazard <ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>Decomposes on heating and produces:</li> <li>carbon monoxide (CO)</li> <li>carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit corrosive fumes.</li> <li>May emit corrosive fumes.</li> <li> </li></ul> <ul> <li>May emit corrosive fumes.</li> <li> </li> <li> </li> </ul>	
HAZCHEM	Not Applicable

#### **SECTION 6 Accidental release measures**

# Personal precautions, protective equipment and emergency procedures

See section 8

# Environmental precautions

See section 12

#### Methods and material for containment and cleaning up

Minor Spills <ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul> <li>Minor Spills</li>		<ul> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> </ul>	
	Major Spills	<ul> <li>Moderate hazard.</li> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> </ul>	

Prevent, by any means available, spillage from entering drains or water course.
Stop leak if safe to do so.
Contain spill with sand, earth or vermiculite.
Collect recoverable product into labelled containers for recycling.
Neutralise/decontaminate residue (see Section 13 for specific agent).
Collect solid residues and seal in labelled drums for disposal.
Wash area and prevent runoff into drains.
After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.
If contamination of drains or waterways occurs, advise emergency services.

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

# **SECTION 7 Handling and storage**

#### Precautions for safe handling

Safe handling Other information	<ul> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> <li>Store in a cool dry place.</li> <li>Do not store in direct sunlight.</li> <li>Store between 10 and 25 deg. C.</li> </ul>
	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Avoid contact with moisture.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> </ul>

#### Conditions for safe storage, including any incompatibilities

Suitable container	DO NOT repack. Use containers supplied by manufacturer only.
Storage incompatibility	<ul> <li>Avoid storage with reducing agents.</li> <li>Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.</li> </ul>

#### **SECTION 8 Exposure controls / personal protection**

#### **Control parameters**

#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Not Available

#### **Emergency Limits**

Ingredient	TEEL-1	TEEL-2	TEEL-3
diurethane dimethacrylate	120 mg/m3	1,300 mg/m3	7,900 mg/m3
diurethane dimethacrylate	120 mg/m3	1,300 mg/m3	7,900 mg/m3
triethylene glycol dimethacrylate	33 mg/m3	360 mg/m3	2,100 mg/m3

Ingredient	Original IDLH	Revised IDLH
diurethane dimethacrylate	Not Available	Not Available
1,12-dodecanediol dimethacrylate	Not Available	Not Available
diurethane dimethacrylate	Not Available	Not Available
triethylene glycol dimethacrylate	Not Available	Not Available

#### **Occupational Exposure Banding**

Ingredient

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
diurethane dimethacrylate	E	≤ 0.1 ppm
1,12-dodecanediol dimethacrylate	E	≤ 0.1 ppm
diurethane dimethacrylate	E	≤ 0.1 ppm
triethylene glycol dimethacrylate	E	≤ 0.1 ppm
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.	

#### MATERIAL DATA

# Exposure controls

	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: 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. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed 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 cont welding, spray drift, plating acid fumes, pickling (released generation)	0.5-1 m/s (100-200 f/min.)		
Appropriate engineering controls	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.			



- Safety glasses with side shields.
- Chemical goggles.

Personal protection

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 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	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>Rubber Gloves</li> </ul>		
Body protection	See Other protection below		
Other protection	No special equipment needed when handling small quantities. <b>OTHERWISE:</b> • Overalls. • Barrier cream. • Eyewash unit.		

#### **Respiratory protection**

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	A-AUS / Class1	-
up to 50	1000	-	A-AUS / Class 1
up to 50	5000	Airline *	-
up to 100	5000	-	A-2
up to 100	10000	-	A-3
100+			Airline**

\* - Continuous Flow \*\* - Continuous-flow or positive pressure demand

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

#### **SECTION 9** Physical and chemical properties

# Information on basic physical and chemical properties

Appearance	Clear, pale yellow low/ slightly viscous liquid with ester like odour, does not mix with water. (Final mixed product).		
Physical state	Liquid	Relative density (Water= 1)	0.8-1.15
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	gels before boiling	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# ALLOYBOND BASE AND ALLOYBOND CATALYST

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# **SECTION 11 Toxicological information**

# Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.		
Ingestion	The material has <b>NOT</b> 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	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.		
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).		
	Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals. Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological, irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even to tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance who are likely to become hyper-responsive. Substances than can cuase occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in people with pre-existing air-way hyper-responsiveness. The latter substances are not classified as asthmagens or respiratory sensitisers Wherever it is reasonably practicable, exposure to substances that can cuase occupational asthma should be prevented. Where this is not possible the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance.		
Chronic	Substances than can cuase occupational asthma sh asthma in people with pre-existing air-way hyper-res respiratory sensitisers Wherever it is reasonably practicable, exposure to this is not possible the primary aim is to apply adequires ponsive. Activities giving rise to short-term peak concentratio considered. Health surveillance is appropriate for all	hould be distinguished from substances which may trigger the symptoms of sponsiveness. The latter substances are not classified as asthmagens or substances that can cuase occupational asthma should be prevented. Wher uate standards of control to prevent workers from becoming hyper- ons should receive particular attention when risk management is being I employees exposed or liable to be exposed to a substance which may	
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ALLOYBOND BASE AND ALLOYBOND CATALYST diurethane dimethacrylate	Substances than can cuase occupational asthma sh asthma in people with pre-existing air-way hyper-res- respiratory sensitisers Wherever it is reasonably practicable, exposure to this is not possible the primary aim is to apply adequ- responsive. Activities giving rise to short-term peak concentratio considered. Health surveillance is appropriate for all cause occupational asthma and there should be app degree of risk and level of surveillance. TOXICITY Not Available TOXICITY dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Oral(Rat) LD50; >5000 mg/kg <sup>[1]</sup>	IRRITATION         IRRITATION         Eye: no adverse effect observed (not irritating) <sup>[1]</sup> Skin: no adverse effect observed (not irritating) <sup>[1]</sup> IRRITATION	
ALLOYBOND BASE AND ALLOYBOND CATALYST diurethane dimethacrylate 1,12-dodecanediol	Substances than can cuase occupational asthma sh asthma in people with pre-existing air-way hyper-res- respiratory sensitisers Wherever it is reasonably practicable, exposure to this is not possible the primary aim is to apply adequ- responsive. Activities giving rise to short-term peak concentratio considered. Health surveillance is appropriate for all cause occupational asthma and there should be app degree of risk and level of surveillance. TOXICITY Not Available TOXICITY dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Oral(Rat) LD50; >5000 mg/kg <sup>[1]</sup>	IRRITATION         IRRITATION         Eye: no adverse effect observed (not irritating) <sup>[1]</sup> Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
ALLOYBOND BASE AND ALLOYBOND CATALYST diurethane dimethacrylate 1,12-dodecanediol	Substances than can cuase occupational asthma sh asthma in people with pre-existing air-way hyper-res- respiratory sensitisers Wherever it is reasonably practicable, exposure to this is not possible the primary aim is to apply adequ- responsive. Activities giving rise to short-term peak concentratio considered. Health surveillance is appropriate for all cause occupational asthma and there should be app degree of risk and level of surveillance. <b>TOXICITY</b> Not Available <b>TOXICITY</b> dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Oral(Rat) LD50; >5000 mg/kg <sup>[1]</sup>	IRRITATION         IRRITATION         Eye: no adverse effect observed (not irritating) <sup>[1]</sup> Skin: no adverse effect observed (not irritating) <sup>[1]</sup> Skin: no adverse effect observed (not irritating) <sup>[1]</sup> Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	

# ALLOVDOND BASE AND ALLOVDOND CATALVST

ersion No: 9.1.3.1	ALLOYBOND BASE AND ALLO	DYBOND CATALYST	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
triethylene glycol dimethacrylate	dermal (mouse) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
umethaciyiate	Oral(Mouse) LD50; 10750 mg/kg <sup>[2]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
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		
1,12-DODECANEDIOL DIMETHACRYLATE	No significant acute toxicological data identified in liter	rature search.	
	test substance was investigated in a Local Lymph Noc compliance with GLP (Vogel, 2009). The highest techn dimethylformamide. To determine the highest non-irrita were treated with concentrations of 25 and 50% each observed at the tested concentrations. In the main stu- test substance at concentrations of 10, 25 and 50% (w by open application on the ears (25 µL/ear). Three day thymidine and approximately after five hours the drain After precipitating the DNA of the lymph node cells, ra- concentrations of 10, 25 and 50% (w/w) in dimethylfor 3562.1, respectively. The SI values calculated for the s respectively. The EC3 value was calculated to be 36.9 sensitizer under the conditions of the test. Repeat Dos reproduction/developmental toxicity screening test, or mg/kg bw/day for females The lowest observed advers Annex I of Regulation (EC) No 1272/2008 classificatio observed in a 90-day repeated-dose study conducted ranges of 10 < C = 100 mg/kg bw/day. These guidance for toxicity studies of greater or lesser duration, using which states essentially that the effective dose is direct exposure. The assessment shall be done on a case-by factor of three. The available repeated dose toxicity stu- toxicity screening test. Male animals were exposed to factor of 1.6 leading to a guidance value range of 16 <	eversible effects * Polysciences MSDS The skin sensitising potential of the de Assay (LLNA) in mice according to OECD Guideline 429 and in nically achievable test substance concentration was 50% (w/w) in ant test concentration, a pre-test was performed in two animals. Two mice on three consecutive days. No signs of irritation or systemic toxicity were ddy, four female CBA/CaOlaHsd mice per test group were treated with the v/w) in dimethylformamide or with vehicle alone for three consecutive days ys after the last exposure, all animals were injected with 3H-methyl ing (auricular) lymph nodes were excised and pooled for each test group. dioactivity measurements were performed. Treatment with test substance manide resulted in DPM values per lymph node of 1266.3, 1363.5 and substance concentrations 10, 25 and 50% were 1.58, 1.70 and 4.44, 3%. Based on the results, the test substance was regarded as a skin se Toxicity: Combined repeated dose toxicity study with the al (OECD 422), rat: NOAEL = 100 mg/kg bw/day for males NOAEL = 300 se effect level (LOAEL) in male animals is 300 mg/kg bw/day. According to an as STOT RE Category 2 is applicable, when significant toxic effects in experimental animals are seen to occur within the guidance value e values can be used as a basis to extrapolate equivalent guidance values dose/exposure time extrapolation similar to Habers rule for inhalation, ctly proportional to the exposure concentration and the duration of y- case basis; for a 28-day study the guidance value is increased by a udy was conducted in combination with the reproductive/developmental the test substance for 56 days. Thus, the guidance value is increased by a case Ca = 160 mg/kg bw/day for a classification as STOT RE Category 2. The bove the guidance value for a classification with regard to repeated by a sufficient on the substance for 56 days. Thus, the guidance value is increased by a so the substance for a classification as STOT RE Category 2. The bove the guidance value for a classification stime regard to rep	

DIURFTHANE DIMETHACRYLATE

LOAEL of 300 mg/kg/bw/day in the present study is above the guidance value for a classification with regard to repeated exposure. Thus, the available data on oral repeated dose toxicity do not meet the criteria for classification according to Regulation (EC) No 1272/2008, and is therefore conclusive but not sufficient for classification. Genetic toxicity: The available data on genetic toxicity are not sufficient for classification according to Regulation (EC) No 1272/2008. Gene mutation in bacteria A bacterial gene mutation assay with the test substance was performed in accordance with OECD Guideline 471 and in compliance with GLP (Paulus, 2009). In two independent experiments, the Salmonella typhimurium strains TA 97a, TA 98, TA 100, TA 102 and TA 1535 were exposed to the test substance dissolved in DMSO using either the preincubation or the plate incorporation method. Test substance concentrations of 50, 150, 500, 1501 and 5004 µg/plate were selected for the plate incorporation test with and without metabolic activation. In the second experiment, 312, 624, 1247, 2493 and 4986 µg/plate were selected for the preincubation method with and without metabolic activation. No signs of cytotoxicity were observed up to and including the limit concentration. Up to 5000 ug/plate, the test substance did not induce an increase in the mutation frequency of the tester strains in the presence and absence of a metabolic activation system. The determined vehicle values for the spontaneous revertants of the controls and all positive control values were within the range of historical data. Under the conditions of this experiment, the test substance did not show mutagenicity in the selected S. typhimurium strains in the presence and absence of metabolic activation. In vitro cytogenicity An in vitro micronucleus assay was performed with the test substance (Schweikl, 2001). In two independent experiments, Chinese hamster lung fibroblasts were exposed to the test substance dissolved in DMSO at concentrations of 11.75, 23.5, 35.25 µg/mL for 24 h in the absence of metabolic activation. Cytotoxicity of the test substance was observed and the TC50 value was assessed to be 24 µg/mL. At cytotoxic concentration levels of the test substance (= 24 µg/mL) the numbers of micronuclei were slightly increased in the absence of metabolic activation. Ethyl methanesulphonate was used as positive control and produced a distinct increase in micronuclei frequency indicating that the test conditions were adequate. Under the conditions of this experiment, the potential of the test substance to induce micronuclei is equivocal. In vitro mutagenicity in mammalian cells An in vitro HPRT assay was performed with the test substance (Schweikl, 1998). In three replicate cultures Chinese hamster lung fibroblasts were exposed to the test substance dissolved in DMSO at concentrations of 11.75, 23.5, 35.25 µg/mL for 24 h in the absence of metabolic activation. Cytotoxicity of the test substance was observed at concentrations = 23.5 µg/mL. No mutagenic activity of UDMA was detected. Ethyl methanesulphonate was used as positive control and produced a distinct increase in mutant frequency indicating that the test conditions were adequate. Thus, under the conditions of this experiment, the test substance did not show mutagenicity in V79 cells without metabolic activation. Due to the positive result in the in vitro micronucleus test without metabolic activation at cytotoxic concentrations a micronucleus test in vivo should be conducted to conclude on genotoxic potential of the test substance. Reproductive toxicity: The available data on toxicity to reproduction do not meet the criteria for classification according to Regulation (EC) 1272/2008, and are therefore conclusive but not sufficient for classification. reproductive toxicity: NOAEL >= 1000 mg/kg bw/day for males and females of the parental generation systemic toxicity: NOAEL = 100 mg/kg bw/day for males and 300 mg/kg bw/day for females of the parental generation A reliable sub-acute study regarding reproductive/developmental toxicity is available for the test substance. The potential reproductive or developmental toxicity of the test substance was assessed in a sub-acute combined repeated dose toxicity study with the reproductive/developmental toxicity screening test in Hsd.Han: Wistar rats performed according to OECD Guideline 422 and in compliance with GLP. Three groups of 12 male and 12 female rats received the test substance in

	<ul> <li>polyethylene glycol as vehicle at doses of 100, 300 or 600 mg/kg bw/day orally via gavage at concentrations of 0, 25, 75 and 150 mg/mL corresponding to a 4 mL/kg bw dosing volume. A control group of 12 animals/sex received the vehicle only. In addition, 5 animals/sex were added to the control and high dose group to assess the reversibility of any effects observed at the high dose level (recovery group). All animals of the parental generation were dosed prior to mating (14 days) and throughout mating. In addition, males received the test item or vehicle after mating up to the day before necropsy (altogether for 56 days). Eemales were additionally exposed through the gestation period and up to lactation days 13 - 21, i.e. up to the day before necropsy (altogether for 56, 57 or 64 days). Observations included mortality, clinical signs, body weight, food consumption, mating, pregnancy and delivery process, lactation as well as development of offspring. The dams were allowed to litter, and rear their offspring up to day 13 post-partum. Litters were weighed and offspring were observed for possible abnormalities and were euthanized on post-natal day 13 or shortly threafter. Blood samples were collected for determination of serum levels of thyroid hormones (T4) from all pups per litter at termination on post-natal day 13. No adverse effect on mortality, clinical signs, body weight necropsy findings were detected in the offspring terminated as scheduled. Thyroid homone levels (T4) in pups on post-natal day 13 were not affected. The anogenital distance (male and female) or nipple retention (male) was not affected due to treatment with the test substance. For the parental generation following oral administration via gavage for 56 days is 100 mg/kg bw/day in male Wistar rats. The corresponding NOAEL in females. Thus, under the conditions of this study, the NOAEL of the test substance for systemic toxicity of the parental generation following oral administration via gavage for 56, 57 or 64 days is 300 mg/kg bw/day.</li></ul>		
DIURETHANE DIMETHACRYLATE & 1,12-DODECANEDIOL DIMETHACRYLATE & TRIETHYLENE GLYCOL DIMETHACRYLATE	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested. Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irrit		
DIURETHANE DIMETHACRYLATE & 1,12-DODECANEDIOL DIMETHACRYLATE	production. Where no "official" classification for acrylates and in the absence of contrary evidence. For exampl Monalkyl or monoarylesters of acrylic acids shou Monoalkyl or monoaryl esters of methacrylic acid	e Ild be classified as R36/37/38 and	d R51/53
A	U I	<b>A</b>	U
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion Serious Eye		Reproductivity	×
Damage/Irritation	*	STOT - Single Exposure	*
Respiratory or Skin	*	STOT - Repeated Exposure	×

X - Data either not available or does not fill the criteria for classification Legend:

Aspiration Hazard

Data available to make classification

×

sensitisation Mutagenicity

×

# Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
ALLOYBOND BASE AND ALLOYBOND CATALYST	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	>0.68mg/l	2
diurethane dimethacrylate	LC50	96h	Fish	10.1mg/l	2
	EC50	48h	Crustacea	>1.2mg/l	2
	NOEC(ECx)	72h	Algae or other aquatic plants	0.21mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
1,12-dodecanediol dimethacrylate	EC50(ECx)	48h	Crustacea	>100mg/l	2
unnethaciyiate	EC50	48h	Crustacea	>100mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	>0.68mg/l	2
diurethane dimethacrylate	LC50	96h	Fish	10.1mg/l	2
	EC50	48h	Crustacea	>1.2mg/l	2
	NOEC(ECx)	72h	Algae or other aquatic plants	0.21mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
triethylene glycol	NOEC(ECx)	72h	Algae or other aquatic plants	18.6mg/l	2
dimethacrylate	EC50	72h	Algae or other aquatic plants	72.8mg/l	2
	LC50	96h	Fish	16.4mg/l	2
Legend:	3. EPIWIN Sui	te V3.12 (QSAR) - Aquatic Toxicity	e ECHA Registered Substances - Ecotoxicological v Data (Estimated) 4. US EPA, Ecotox database - ITE (Japan) - Bioconcentration Data 7. METI (Jap	Aquatic Toxicity Da	ata 5.

DO NOT discharge into sewer or waterways.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
1,12-dodecanediol dimethacrylate	HIGH	HIGH
triethylene glycol dimethacrylate	LOW	LOW

# **Bioaccumulative potential**

Ingredient	Bioaccumulation
1,12-dodecanediol dimethacrylate	LOW (LogKOW = 7.1198)
triethylene glycol dimethacrylate	LOW (LogKOW = 1.88)

# Mobility in soil

Ingredient	Mobility
1,12-dodecanediol dimethacrylate	LOW (KOC = 12370)
triethylene glycol dimethacrylate	LOW (KOC = 10)

#### ALLOYBOND BASE AND ALLOYBOND CATALYST

#### Waste treatment methods

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

# **SECTION 14 Transport information**

#### Labels Required

Marine Pollutant	
HAZCHEM	Not Applicable

# Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

# Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

# Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

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

#### Not Applicable

# Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
diurethane dimethacrylate	Not Available
1,12-dodecanediol dimethacrylate	Not Available
diurethane dimethacrylate	Not Available
triethylene glycol dimethacrylate	Not Available

#### Transport in bulk in accordance with the ICG Code

Product name	Ship Type
diurethane dimethacrylate	Not Available
1,12-dodecanediol dimethacrylate	Not Available
diurethane dimethacrylate	Not Available
triethylene glycol dimethacrylate	Not Available

# **SECTION 15 Regulatory information**

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

diurethane dimethacrylate is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous	Australian Inventory of Industrial Chemicals (AIIC)
Chemicals	
1,12-dodecanediol dimethacrylate is found on the following regulatory lists	
Australian Inventory of Industrial Chemicals (AIIC)	
diurethane dimethacrylate is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous	Australian Inventory of Industrial Chemicals (AIIC)
Chemicals	
triethylene glycol dimethacrylate is found on the following regulatory lists	
Australian Inventory of Industrial Chemicals (AIIC)	

# **National Inventory Status**

# ALLOYBOND BASE AND ALLOYBOND CATALYST

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	No (diurethane dimethacrylate; 1,12-dodecanediol dimethacrylate; diurethane dimethacrylate)	
Canada - NDSL	No (triethylene glycol dimethacrylate)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	No (diurethane dimethacrylate; 1,12-dodecanediol dimethacrylate; diurethane dimethacrylate)	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	No (1,12-dodecanediol dimethacrylate)	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (diurethane dimethacrylate; 1,12-dodecanediol dimethacrylate; diurethane dimethacrylate)	
Vietnam - NCI	No (1,12-dodecanediol dimethacrylate)	
Russia - FBEPH	No (diurethane dimethacrylate; 1,12-dodecanediol dimethacrylate; diurethane dimethacrylate)	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)	

# **SECTION 16 Other information**

Revision Date	01/11/2019
Initial Date	09/11/2015

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
8.1.1.1	17/11/2016	Classification, Ingredients
9.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
9.1.2.1	26/04/2021	Regulation Change
9.1.3.1	03/05/2021	Regulation Change

#### Other information

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

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

#### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard 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 AIIC: Australian Inventory of Industrial Chemicals

# ALLOYBOND BASE AND ALLOYBOND CATALYST

DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances This document is copyright.

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TEL (+61 3) 9572 4700.



# ALLOYBOND PRIMER SDI Limited

#### Chemwatch: 5195-44

Version No: 9.1.3.1

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

# SECTION 1 Identification of the substance / mixture and of the company / undertaking

#### **Product Identifier**

Product name	ALLOYBOND PRIMER
Chemical Name	Not Applicable
Synonyms	Not Available
Proper shipping name	FLAMMABLE LIQUID, N.O.S. (contains acetone)
Chemical formula	Not Applicable
Other means of identification	Not Available

#### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	For bonding of amalgam to tooth surfaces.
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# Details of the supplier of the safety data sheet

Registered company name	SDI Limited
Address	3-15 Brunsdon Street Bayswater VIC 3153 Australia
Telephone	+61 3 8727 7111 (Business Hours)
Fax	+61 3 8727 7222
Website	www.sdi.com.au
Email	info@sdi.com.au

# Emergency telephone number

Association / Organisation	SDI Limited
Emergency telephone numbers	+61 3 8727 7111
Other emergency telephone numbers	ray.cahill@sdi.com.au

# **SECTION 2 Hazards identification**

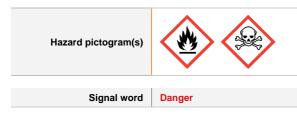
#### Classification of the substance or mixture

Poisons Schedule	S5
Classification <sup>[1]</sup>	Flammable Liquid Category 2, Acute Toxicity (Oral) Category 3, Acute Toxicity (Dermal) Category 4, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Skin Sensitizer Category 1, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), Specific target organ toxicity - single exposure Category 3 (narcotic effects), Chronic Aquatic Hazard Category 3
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

#### Label elements

Chemwatch Hazard Alert Code: 3 Issue Date: 01/11/2019

Print Date: 05/05/2021 L.GHS.AUS.EN



# Hazard statement(s)

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

# Precautionary statement(s) Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.				
P270	Do not eat, drink or smoke when using this product.				
P271	lse only outdoors or in a well-ventilated area.				
P280	ear protective gloves/protective clothing/eye protection/face protection/hearing protection.				
P240	ound and bond container and receiving equipment.				
P241	Jse explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.				
P242	Use non-sparking tools.				
P243	Take action to prevent static discharges.				
P261	Avoid breathing mist/vapours/spray.				
P273	Avoid release to the environment.				
P272	Contaminated work clothing should not be allowed out of the workplace.				

# Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.				
P330	Rinse mouth.				
P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.				
P302+P352	IF ON SKIN: Wash with plenty of water.				
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				
P312	Call a POISON CENTER/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.				
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].				
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.				

# Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

#### Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

#### **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

#### **Mixtures**

CAS No	%[weight] Name					
67-64-1	54	acetone				
Not Available	44	acrylic monomer				
Not Available	2	Ingredients determined not to be hazardous				
Legend: 1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available						

# **SECTION 4 First aid measures**

#### Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Immediately hold eyelids apart and flush the eye continuously with running water.</li> <li>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.</li> <li>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>
Ingestion	Seek medical attention.

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5 Firefighting measures**

# Extinguishing media

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

# Special hazards arising from the substrate or mixture

Fire Incompatibility Avoid contact with incompatible materials.

# Advice for firefighters

-	
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Consider evacuation (or protect in place).</li> <li>Fight fire from a safe distance, with adequate cover.</li> <li>If safe, switch off electrical equipment until vapour fire hazard removed.</li> <li>Use water delivered as a fine spray to control the fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</li> <li>Do not approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> </ul>

	If safe to do so, remove containers from path of fire.
Fire/Explosion Hazard	<ul> <li>Liquid and vapour are highly flammable.</li> <li>Severe fire hazard when exposed to heat, flame and/or oxidisers.</li> <li>Vapour may travel a considerable distance to source of ignition.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> </ul>
HAZCHEM	•3YE

# **SECTION 6 Accidental release measures**

# Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb small quantities with vermiculite or other absorbent material.</li> <li>Wipe up.</li> <li>Collect residues in a flammable waste container.</li> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Consider evacuation (or protect in place).</li> </ul>
Major Spills	<ul> <li>No smoking, naked lights or ignition sources.</li> <li>Increase ventilation.</li> <li>Stop leak if safe to do so.</li> <li>Water spray or fog may be used to disperse /absorb vapour.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Use only spark-free shovels and explosion proof equipment.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Absorb remaining product with sand, earth or vermiculite.</li> <li>Collect solid residues and seal in labelled drums for disposal.</li> <li>Wash area and prevent runoff into drains.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul>

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

# **SECTION 7 Handling and storage**

# Precautions for safe handling

Page 5 of 12

	<ul> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.</li> </ul>
Other information	Store in a cool dry place. <b>Do not</b> store in direct sunlight.
	Store between 10 and 25 deg. C.

#### y IJ

Suitable container	DO NOT repack. Use containers supplied by manufacturer only.			
Storage incompatibility	<ul> <li>Avoid storage with reducing agents.</li> <li>Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.</li> </ul>			

# **SECTION 8 Exposure controls / personal protection**

# **Control parameters**

# Occupational Exposure Limits (OEL)

# INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	acetone	Acetone	500 ppm / 1185 mg/m3	2375 mg/m3 / 1000 ppm	Not Available	Not Available

# Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
acetone	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
acetone	2,500 ppm		Not Available	

# MATERIAL DATA

# Exposure controls

	Engineering controls are used to remove a hazard or place a engineering controls can be highly effective in protecting work provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activit Enclosure and/or isolation of emission source which keeps a that strategically "adds" and "removes" air in the work environ designed properly. The design of a ventilation system must m Employers may need to use multiple types of controls to prev For flammable liquids and flammable gases, local exhaust ve Ventilation equipment should be explosion-resistant. Air contaminants generated in the workplace possess varying velocities" of fresh circulating air required to effectively remov Type of Contaminant:	kers and will typically be independent of worker inter y or process is done to reduce the risk. selected hazard "physically" away from the worker a iment. Ventilation can remove or dilute an air contan iatch the particular process and chemical or contami ent employee overexposure. ntilation or a process enclosure ventilation system n g "escape" velocities which, in turn, determine the "c	actions to and ventilation ninant if inant in use. nay be required.
			0.25-0.5
Appropriate engineering controls	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 contai spray drift, plating acid fumes, pickling (released at low velo		0.5-1 m/s (100-200 f/min.)
	direct spray, spray painting in shallow booths, drum filling, c (active generation into zone of rapid air motion)	onveyer loading, crusher dusts, gas discharge	1-2.5 m/s (200-500 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
	generally decreases with the square of distance from the extraction point should be adjusted, accordingly, after reference to the straction fan, for example, should be a minimum of 1-2 r meters distant from the extraction point. Other mechanication	ance away from the opening of a simple extraction pipe. Velocity extraction point (in simple cases). Therefore the air speed at the erence to distance from the contaminating source. The air velocity at the n/s (200-400 f/min.) for extraction of solvents generated in a tank 2 I considerations, producing performance deficits within the extraction are multiplied by factors of 10 or more when extraction systems are
Personal protection		
Eye and face protection	document, describing the wearing of lenses or restrict include a review of lens absorption and adsorption for Medical and first-aid personnel should be trained in th event of chemical exposure, begin eye irrigation imme be removed at the first signs of eye redness or irritation	ct lenses may absorb and concentrate irritants. A written policy ions on use, should be created for each workplace or task. This should the class of chemicals in use and an account of injury experience. eir removal and suitable equipment should be readily available. In the idiately and remove contact lens as soon as practicable. Lens should in - lens should be removed in a clean environment only after workers intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
Skin protection	See Hand protection below	
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubbe</li> <li>Rubber Gloves</li> </ul>	r
Body protection	See Other protection below	
Other protection	No special equipment needed when handling small quant <b>OTHERWISE:</b> • Overalls. • Barrier cream. • Eyewash unit.	ities.

#### Recommended material(s)

#### **GLOVE SELECTION INDEX**

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

ALLOYBOND PRIMER

Material	CPI
BUTYL	А
BUTYL/NEOPRENE	А
PE/EVAL/PE	А
PVDC/PE/PVDC	А
SARANEX-23 2-PLY	В
TEFLON	В
CPE	С
HYPALON	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NITRILE	С
NITRILE+PVC	С
PVA	С
PVC	С
SARANEX-23	С
VITON/NEOPRENE	С

#### **Respiratory protection**

Type AX 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	Air-line*	AX-2	AX-PAPR-2 ^
up to 20 x ES	-	AX-3	-
20+ x ES	-	Air-line**	-

\* - Continuous-flow; \*\* - Continuous-flow or positive pressure demand

^ - 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)

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove,

a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis,

factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

#### **SECTION 9** Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance	Clear, pale yellow low/ slightly viscous liquid with ester like odour, mixes with water.					
Physical state	Liquid	iquid Relative density (Water= 1) 0.8-1.15				
Odour	Not Available	Partition coefficient n-octanol / water	Not Available			
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available			
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available			
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available			
Initial boiling point and boiling range (°C)	Gels before boiling	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 (%)	13	Surface Tension (dyn/cm or mN/m)	Not Available			
Lower Explosive Limit (%)	3	Volatile Component (%vol)	Not Available			
Vapour pressure (kPa)	Not Available	Gas group	Not Available			
Solubility in water	Miscible	pH as a solution (1%)	Not Applicable			
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available			

#### **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

#### **SECTION 11 Toxicological information**

#### Information on toxicological effects

Inhaled

Evidence shows, or practical experience predicts, that the material produces irritation 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 irritation often results in an inflammatory response involving the

	TOXICITY IRRITATION
	Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.
	Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance.
	Wherever it is reasonably practicable, exposure to substances that can cuase occupational asthma should be prevented. Where this is not possible the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive.
Chronic	asthma in people with pre-existing air-way hyper-responsiveness. The latter substances are not classified as asthmagens or respiratory sensitisers
	symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance who are likely to become hyper-responsive. Substances than can cuase occupational asthma should be distinguished from substances which may triager the symptoms of
	specific airway hyper-responsiveness via an immunological, irritant or other mechanism. Once the airways have become hyper- responsive, further exposure to the substance, sometimes even to tiny quantities, may cause respiratory symptoms. These
	substantial number of individuals, and/or of producing a positive response in experimental animals. Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of
	problems. Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a
	impairment of vision and/or other transient eye damage/ulceration may occur. Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic
Eye	impairment of vision may result unless treatment is prompt and adequate. Repeated or prolonged exposure to irritants may cause inflammation characterised by a temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary
Fire	Evidence exists, or practical experience predicts, that the material may cause severe eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Eye contact may cause significant inflammation with pain. Corneal injury may occur; permanent
	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.
	Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Open cuts, abraded or irritated skin should not be exposed to this material
	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.
Skin Contact	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 (erythema) and swelling (oedema) which may progress to
	produces significant, but mild, 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.
	The material produces mild skin irritation; evidence exists, or practical experience predicts, that the material either <ul> <li>produces mild inflammation of the skin in a substantial number of individuals following direct contact, and/or</li> </ul>
	Skin contact with the material may be harmful; systemic effects may result following absorption.
Ingestion	Toxic effects may result from the accidental ingestion of the material; animal experiments indicate that ingestion of less than 40 gram may be fatal or may produce serious damage to the health of the individual.
	Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by narcosis, reduced alertness, loss of reflexes, lack of coordination and vertigo.
	recruitment and activation of many cell types, mainly derived from the vascular system.

ALLOYBOND PRIMER	ΤΟΧΙΟΙΤΥ	IRRITATION
ALLOTBOND PRIMER	Not Available	Not Available
	τοχιςιτγ	IRRITATION
	Dermal (rabbit) LD50: 20 mg/kg <sup>[2]</sup>	Eye (human): 500 ppm - irritant
	Inhalation(Mouse) LC50; 44 mg/L4h <sup>[2]</sup>	Eye (rabbit): 20mg/24hr -moderate
	Oral(Rat) LD50; 1738 mg/kg <sup>[1]</sup>	Eye (rabbit): 3.95 mg - SEVERE
acetone		Eye: adverse effect observed (irritating) <sup>[1]</sup>
		Skin (rabbit): 500 mg/24hr - mild
		Skin (rabbit):395mg (open) - mild
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
Legend:	1. Value obtained from Europe ECHA Registered Substances Unless otherwise specified data extracted from RTECS - Reg	

ACETONE

The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.

	for acetone:				
	The acute toxicity of acetone is low. Acetone is n	not a skin irritant or sensitiser but	is a defatting agent to the skin. Acetone is an		
	eye irritant. The subchronic toxicity of acetone ha	as been examined in mice and ra	ts that were administered acetone in the		
	drinking water and again in rats treated by oral g	avage. Acetone-induced increase	es in relative kidney weight changes were		
	observed in male and female rats used in the ora	al 13-week study. Acetone treatm	ent caused increases in the relative liver weight		
	in male and female rats that were not associated	with histopathologic effects and	the effects may have been associated with		
	microsomal enzyme induction. Haematologic effe	ects consistent with macrocytic a	naemia were also noted in male rats along with		
	hyperpigmentation in the spleen. The most notal	ble findings in the mice were incre	eased liver and decreased spleen weights.		
	yperpigmentation in the spleen. The most notable findings in the mice were increased liver and decreased spleen weights. Overall, the no-observed-effect-levels in the drinking water study were 1% for male rats (900 mg/kg/d) and male mice (2258				
	mg/kg/d), 2% for female mice (5945 mg/kg/d), ar	nd 5% for female rats (3100 mg/k	g/d). For developmental effects, a statistically		
	significant reduction in foetal weight, and a slight	t, but statistically significant increa	ase in the percent incidence of later resorptions		
	were seen in mice at 15,665 mg/m3 and in rats a	at 26,100 mg/m3. The no-observa	able-effect level for developmental toxicity was		
	determined to be 5220 mg/m3 for both rats and r	mice.			
	Teratogenic effects were not observed in rats and	d mice tested at 26,110 and 15,6	65 mg/m3, respectively. Lifetime dermal		
	carcinogenicity studies in mice treated with up to	0.2 mL of acetone did not revea	l any increase in organ tumor incidence relative		
	to untreated control animals.				
	The scientific literature contains many different s	tudies that have measured either	the neurobehavioural performance or		
	neurophysiological response of humans exposed	d to acetone. Effect levels ranging	g from about 600 to greater than 2375 mg/m3		
	have been reported. Neurobehavioral studies wit	th acetone-exposed employees h	ave recently shown that 8-hr exposures in		
	excess of 2375 mg/m3 were not associated with	any dose-related changes in res	ponse time, vigilance, or digit span scores.		
	Clinical case studies, controlled human voluntee	r studies, animal research, and o	ccupational field evaluations all indicate that the		
	NOAEL for this effect is 2375 mg/m3 or greater.				
Acute Toxicity	×	Carcinogenicity	×		
Skin Irritation/Corrosion	*	Reproductivity	×		
Serious Eye Damage/Irritation	~	STOT - Single Exposure	✓		

Respiratory or Skin sensitisation	<b>~</b>	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
	Leç	gend: 🗙 – Data either not ava	ilable or does not fill the criteria for classification

Data available to make classification

# **SECTION 12 Ecological information**

Toxicity

	Endpoint	Test Duration (hr)	Species		Value	Source
ALLOYBOND PRIMER	Not Available	Not Available	Not Available		Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Valu	e	Source
acetone	NOEC(ECx)	48h	Fish	0.001mg/L		4
	EC50	96h	Algae or other aquatic plants	9.873	3-27.684mg/l	4
	LC50	96h	Fish	13.30	)3mg/L	4
	EC50	48h	Crustacea	6098	.4mg/L	5
Legend:	Extracted from	1. IUCLID Toxicity Data 2. Europ	e ECHA Registered Substances - Ecotoxico	ological Info	rmation - Aqu	atic Toxicit
		EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data ETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentratic				

Harmful to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

Vendor Data

DO NOT discharge into sewer or waterways.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
acetone	LOW (Half-life = 14 days)	MEDIUM (Half-life = 116.25 days)

# **Bioaccumulative potential**

Ingredient	Bioaccumulation
acetone	LOW (BCF = 0.69)

# Mobility in soil

Ingredient	Mobility
acetone	HIGH (KOC = 1.981)

# **SECTION 13 Disposal considerations**

Waste treatment methods					
Product / Packaging disposal	<ul> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> </ul>				

#### **SECTION 14 Transport information**

# Labels Required

Marine Pollutant	NO
HAZCHEM	•3YE

# Land transport (ADG)

UN number	1993	1993		
UN proper shipping name	FLAMMAB	FLAMMABLE LIQUID, N.O.S. (contains acetone)		
Transport hazard class(es)	Class     3       Subrisk     Not Applicable			
Packing group	П	I		
Environmental hazard	Not Applica	Not Applicable		
Special precautions for user			274 1 L	

# Air transport (ICAO-IATA / DGR)

UN number	1993			
UN proper shipping name	Flammable liquid, n.o.s.	Flammable liquid, n.o.s. * (contains acetone)		
	ICAO/IATA Class	3		
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
	ERG Code	ЗН		
Packing group	11			
Environmental hazard	Not Applicable			
	Special provisions		A3	
	Cargo Only Packing Instructions			
	Cargo Only Maximum Qty / Pack			
Special precautions for user	Passenger and Cargo	353		
	Passenger and Cargo Maximum Qty / Pack			
	Passenger and Cargo Limited Quantity Packing Instructions		Y341	
	Passenger and Cargo Limited Maximum Qty / Pack		1 L	

UN number	1993			
UN proper shipping name	FLAMMABLE LIQUID	FLAMMABLE LIQUID, N.O.S. (contains acetone)		
Transport hazard class(es)	IMDG Class     3       IMDG Subrisk     Not Applicable			
Packing group	II			
Environmental hazard	Not Applicable			
Special precautions for user Limited Qu		F-E , S-E 274 1 L		

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

Not Applicable

#### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
acetone	Not Available

# Transport in bulk in accordance with the ICG Code

Product name	Ship Type
acetone	Not Available

If packed as Chemical kits the following classification may be considered if all ICAO/IATA transport requirements are met: Chemical Kit UN3316 - Class 9, SP A44 & A163.

Australian Inventory of Industrial Chemicals (AIIC)

# **SECTION 15 Regulatory information**

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

a	acetone is found on the following regulatory lists
	Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
	Australia Standard for the Uniform Scheduling of Medicines and Poisons SUSMP) - Schedule 5

# **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (acetone)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

# **SECTION 16 Other information**

Revision Date	01/11/2019
Initial Date	02/11/2015

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
8.1.1.1	04/04/2017	Physical Properties
9.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
9.1.2.1	26/04/2021	Regulation Change
9.1.3.1	03/05/2021	Regulation Change

#### Other information

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

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

#### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard 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 AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances This document is copyright.

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