Iccons
Chemwatch: 74-2947

Chemwatch Hazard Alert Code: 2

Issue Date: **08/20/2021** Print Date: **03/23/2023** S.GHS.AUS.EN

Version No: **8.1**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	Iccons BIS-HY GEN2 Part A
Chemical Name	Not Applicable
Synonyms	BIS-HY 420 Part A; BIS-HY 280 Part A
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

Adhesive mortar for fastening to concrete elements A-Component (Resin).

UV/ EB-curing is a drying technology for coatings, inks and adhesives. It uses light of a certain wavelength or high speed electrons to give almost instantaneous dry films. It allows formulators to develop products for a wide variety of applications and substrates without using volatile organic compounds as solvents. It represents therefore a major technological advance compared to other technologies, which may require abatement installations to take care of these compounds, as many of these compounds are able to cause either environmental or health risks if present in a

too large concentration.

#### Details of the manufacturer or supplier of the safety data sheet

Registered company name	Iccons	Sesto Fasteners Ltd
Address	383 Frankston Dandenong Road Dandenong South VIC 3175 Australia	5E Piermark Drive Albany Auckland 0632 New Zealand
Telephone	+61 3 9706 4344	+64 09 415 8564
Fax	Not Available	Not Available
Website	www.iccons.com.au	www.sestofasteners.co.nz
Email	info@iccons.com.au	info@sestofasteners.co.nz

#### Emergency telephone number

Association / Organisation	Shore Care, Smales Farm	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	+64 09 486 7777 (24 hrs)	+61 1800 951 288
Other emergency telephone numbers	Not Available	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial  ${\bf 01}$ 

# **SECTION 2 Hazards identification**

# Classification of the substance or mixture

Poisons Schedule	S5
Classification <sup>[1]</sup>	Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) 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

Hazard pictogram(s)



Signal word	Warning
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#### Hazard statement(s)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

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#### **Iccons BIS-HY GEN2 Part A**

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#### Precautionary statement(s) Prevention

• • • •	
P271	Use only a well-ventilated area.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P261	Avoid breathing mist/vapours/spray.
P264	Wash all exposed external body areas thoroughly after handling.

#### Precautionary statement(s) Response

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.

#### 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
2082-81-7	10-25	1.4-butanediol dimethacrylate
14808-60-7	1-<5	silica crystalline - quartz
38668-48-3	0.1-<1	dipropoxy-p-toluidine
923-26-2	0.1-<1	2-hydroxypropyl methacrylate
98-29-3	0.1-<0.25	4-tert-butylcatechol
Legend:	1. Classified by Chemwatch; 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 lifting the upper and lower lids.  Seek medical attention without delay; if pain persists or recurs seek medical attention.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.	
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.	
Inhalation	<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	<ul> <li>For advice, contact a Poisons Information Centre or a doctor at once.</li> <li>Urgent hospital treatment is likely to be needed.</li> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Transport to hospital or doctor without delay.</li> </ul>	

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5 Firefighting measures**

# **Extinguishing media**

► Foam.

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- Dry chemical powder.
- ► BCF (where regulations permit).
- Carbon dioxide.

#### Special hazards arising from the substrate or mixture

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

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 full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> </ul>
Fire/Explosion Hazard	Combustible. Will burn if ignited. Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) nitrogen oxides (NOx) other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes.
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	Clean up all spills immediately. Avoid contact with skin and eyes. Wear impervious gloves and safety goggles. Trowel up/scrape up.
Major Spills	Minor hazard.  Clear area of personnel.  Alert Fire Brigade and tell them location and nature of hazard.  Control personal contact with the substance, by using protective equipment as required.

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

# **SECTION 7 Handling and storage**

Safe handling	<ul> <li>Most acrylic monomers have low viscosity therefore pouring, material transfer and processing of these materials do not necessitate heating</li> <li>Viscous monomers may require heating to facilitate handling. To facilitate product transfer from original containers, product must be heated to no more than 60 deg. C. (140 F.), for not more than 24 hours.</li> <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>Prevent concentration in hollows and sumps.</li> </ul>
Other information	<ul> <li>Storage requires stabilising inhibitor content and dissolved oxygen content to be monitored. Refer to manufacturer's recommended levels.</li> <li>DO NOT overfill containers so as to maintain free head space above product.</li> <li>Blanketing or sparging with nitrogen or oxygen free gas will deactivate stabiliser.</li> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> </ul>

Conditions for safe storage, including any incompatibilities		
Suitable container	<ul> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>	
Storage incompatibility	for multifunctional acrylates:  Avoid exposure to free radical initiators (peroxides, persulfates), iron, rust, oxidisers, and strong acids and strong bases.  Avoid heat, flame, sunlight, X-rays or ultra-violet radiation.  Storage beyond expiration date, may initiate polymerisation. Polymerisation of large quantities may be violent (even explosive)	

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

# **Control parameters**

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#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	silica crystalline - quartz	Silica - Crystalline: Quartz (respirable dust)	0.05 mg/m3	Not Available	Not Available	Not Available

#### **Emergency Limits**

Ingredient	TEEL-1	TEEL-2	TEEL-3
silica crystalline - quartz	0.075 mg/m3	33 mg/m3	200 mg/m3
4-tert-butylcatechol	0.18 mg/m3	2 mg/m3	560 mg/m3

Ingredient	Original IDLH	Revised IDLH
1,4-butanediol dimethacrylate	Not Available	Not Available
silica crystalline - quartz	25 mg/m3 / 50 mg/m3	Not Available
dipropoxy-p-toluidine	Not Available	Not Available
2-hydroxypropyl methacrylate	Not Available	Not Available
4-tert-butylcatechol	Not Available	Not Available

#### Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
1,4-butanediol dimethacrylate	E	≤ 0.1 ppm
dipropoxy-p-toluidine	E	≤ 0.01 mg/m³
2-hydroxypropyl methacrylate	E	≤ 0.1 ppm
4-tert-butylcatechol	D	> 0.01 to ≤ 0.1 mg/m³
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.	

#### **Exposure controls**

#### Appropriate engineering 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.

Individual protection measures, such as personal protective equipment









#### Eye and face protection

Hands/feet 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.

#### Skin protection

#### See Hand protection below

# NOTE:

- The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

General warning: Do NOT use latex gloves! Use only recommended gloves - using the wrong gloves may increase the risk:

#### Use of thin nitrile rubber gloves: Nitrile rubber (0.1 mm) **Exposure condition** Short time use; (few minutes less than 0.5 Excellent tactibility ("feel"), powder-free Disposable Little physical stress Inexpensive Give adequate protection to low molecular weigh acrylic monomers Use of medium thick nitrile rubber gloves Nitrile rubber, NRL (latex) free: <0.45 mm **Exposure condition** Moderate tactibility ("feel"), powder-free Medium time use; Disposable less than 4 hours Moderate price Physical stress (opening drums, using tools, Gives adequate protection for most acrylates up to 4 hours Do NOT give adequate protection to low molecular weight monomers at exposures longer than 1 hour Nitrile rubber, NRL (latex) free; >0.56 mm low tactibility ("feel"), powder free High price **Exposure condition** Gives adequate protection for most acrylates in combination with commonly used solvents Long time up to 8 hours Cleaning operations Do NOT give adequate protection to low molecular weight monomers at exposures longer than 1 hour Avoid use of ketones and acetates in wash-up solutions.

Where none of this gloves ensure safe handling (for example in long term handling of acrylates containing high levels of acetates and/ or ketones, use laminated multilaver gloves.

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	Guide to the Classification and Labelling of UV/EB Acrylates Third edition, 231 October 2007 - Cefic
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> </ul>

# Respiratory protection

Type AK-P 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	AK-AUS P3	-	AK-PAPR-AUS / Class 1 P3
up to 50 x ES	-	AK-AUS / Class 1 P3	-
up to 100 x ES	-	AK-2 P3	AK-PAPR-2 P3 ^

<sup>^ -</sup> Full-face

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

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

#### Information on basic physical and chemical properties

Appearance	Paste with characteristic odour; partially mixes with water.		
T P P P P P P P P P P P P P P P P P P P	,		
Physical state	Non Slump Paste	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 Applicable	Decomposition temperature (°C)	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	Partly miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<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

Information on toxicological et	fects
Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. No report of respiratory illness in humans as a result of exposure to multifunctional acrylates has been found.
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
Skin Contact	This material can cause inflammation of the skin on contact in some persons.  The material may accentuate any pre-existing dermatitis condition  All multifunctional acrylates (MFA) produce skin disorders and sensitise the skin and inflammation. Vapours generated by the heat of milling may

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	occur in sufficient concentration to produce inflammation.  Open cuts, abraded or irritated skin should not be exposed to Entry into the blood-stream, through, for example, cuts, abras prior to the use of the material and ensure that any external d	ions or lesions, may produce systemic injury with harmful effects. Examine the skin
Еуе	This material can cause eye irritation and damage in some pe Irritation of the eyes may produce a heavy secretion of tears (	rsons.
Chronic	Skin contact with the material is more likely to cause a sensiti	sation reaction in some persons compared to the general population. may cause some concern following repeated or long-term occupational exposure.
	TOXICITY	IRRITATION
Iccons BIS-HY GEN2 Part A	Oral (Rat) LD50: >2000 mg/kg* <sup>[2]</sup>	Not Available
	TOXICITY	IRRITATION
1,4-butanediol dimethacrylate	Oral (Rat) LD50: 10.066 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
,,,		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	TOXICITY	IRRITATION
silica crystalline - quartz	Oral (Rat) LD50: 500 mg/kg <sup>[2]</sup>	Not Available
	TOXICITY	IRRITATION
dipropoxy-p-toluidine	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit): slight* * = BAYER
uipropoxy-p-tordiume	Oral (Rat) LD50: >25<200 mg/kg <sup>[1]</sup>	Skin (rabbit): 4h - Non irrit.*
		1
	TOXICITY	IRRITATION
2-hydroxypropyl methacrylate	Oral (Rat) LD50: 5050 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	TOWNTY	
	TOXICITY  Dermal (raphit)   DE0: 620 mg/kg[2]	IRRITATION  Eye (rabbit): 0.05 mg - SEVERE
4-tert-butylcatechol	Dermal (rabbit) LD50: 630 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 815 mg/kg <sup>[1]</sup>	Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>
4-tert-butylcatechor	Oral (Nat) ED30. 013 Hig/kg- 2	Skin (rabbit):0.75 mg/24h-SEVERE
		Skin: adverse effect observed (corrosive) <sup>[1]</sup>
Legend:	Value obtained from Europe ECHA Registered Substances     specified data extracted from RTECS - Register of Toxic Effect	- Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise of chemical Substances
1,4-BUTANEDIOL DIMETHACRYLATE	UV (ultraviolet) / EB (electron beam) acrylates are generally o "eurymeric" acrylates. Stenomeric acrylates are usually more l No significant acute toxicological data identified in literature so	
SILICA CRYSTALLINE - QUARTZ	The International Agency for Research on Cancer (IARC) has carcinogenic to humans . This classification is based on what the carcinogenicity of inhaled silica in the forms of quartz and disease.  Intermittent exposure produces; focal fibrosis, (pneumoconios* Millions of particles per cubic foot (based on impinger sample)	es counted by light field techniques). s whether it is likely to present a chronic health problem. To be a hazard the
2-HYDROXYPROPYL METHACRYLATE	for CAS 963-26-2 2-hydroxypropyl methacrylate NOTE: Allerg humans (severe). for CAS 27813-02-1 1-hydroxypropyl methac	pic contact dermatitis is reported following exposure of guinea pigs (mild) and acrylate
4-TERT-BUTYLCATECHOL	potential of the allergen and period of exposure often determing others, and exposure to other irritants may aggravate symptomattention should be paid to atopic diathesis, characterised by	e to interactions between IgE antibodies and allergens and occur rapidly. Allergic ne the severity of symptoms. Some people may be genetically more prone than ms. Allergy causing activity is due to interactions with proteins. increased susceptibility to nasal inflammation, asthma and eczema. In specific immune-complexes of the IgG type; cell-mediated reactions (T type with onset up to four hours following exposure.
1,4-BUTANEDIOL DIMETHACRYLATE & 2-HYDROXYPROPYL METHACRYLATE & 4-TERT- BUTYLCATECHOL	eczema involves a cell-mediated (T lymphocytes) immune rea involve antibody-mediated immune reactions. Asthma-like symptoms may continue for months or even year known as reactive airways dysfunction syndrome (RADS) whi criteria for diagnosing RADS include the absence of previous asthma-like symptoms within minutes to hours of a document	pp and may not be specific to this product.  Ima, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact action of the delayed type. Other allergic skin reactions, e.g. contact urticaria, as after exposure to the material ends. This may be due to a non-allergic condition on occur after exposure to high levels of highly irritating compound. Main airways disease in a non-atopic individual, with sudden onset of persistent ed exposure to the irritant. Other criteria for diagnosis of RADS include a reversible archial hyperreactivity on methacholine challenge testing, and the lack of minimal

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1,4-BUTANEDIOL DIMETHACRYLATE & 2-HYDROXYPROPYL METHACRYLATE Where no "official" classification for acrylates and methacrylates exists, there have been cautious attempts to create classifications in the absence of contrary evidence. For example

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

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

Based on the available oncogenicity data and without a better understanding of the carcinogenic mechanism the Health and Environmental Review Division (HERD), Office of Toxic Substances (OTS), of the US EPA previously concluded that all chemicals that contain the acrylate or methacrylate moiety (CH2=CHCOO or CH2=C(CH3)COO) should be considered to be a carcinogenic hazard unless shown otherwise by adequate testing.

This position has now been revised and acrylates and methacrylates are no longer *de facto* carcinogens.

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	×

Legend:

X - Data either not available 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
Iccons BIS-HY GEN2 Part A	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	NOEC(ECx)	72h	Algae or other aquatic plants	2.11mg/l	2
1,4-butanediol dimethacrylate	EC50	72h	Algae or other aquatic plants	4.97mg/l	2
	LC50	96h	Fish	12.4mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
silica crystalline - quartz	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96h	Fish	17mg/l	2
dipropoxy-p-toluidine	EC50(ECx)	48h	Crustacea	28.8mg/l	2
	EC50	72h	Algae or other aquatic plants	245mg/l	2
	EC50	48h	Crustacea	28.8mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	NOEC(ECx)	504h	Crustacea	45.2mg/l	2
2-hydroxypropyl methacrylate	EC50	72h	Algae or other aquatic plants	>97.2mg/l	2
	LC50	96h	Fish	833mg/l	2
	EC50	48h	Crustacea	>143mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	NOEC(ECx)	96h	Fish	0.065mg/l	2
4-tert-butylcatechol	EC50	72h	Algae or other aquatic plants	10.17mg/l	2
	LC50	96h	Fish	0.12mg/l	2
	EC50	48h	Crustacea	0.48mg/l	2

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 8. Vendor Data

#### DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
1,4-butanediol dimethacrylate	LOW	LOW
dipropoxy-p-toluidine	HIGH	HIGH
2-hydroxypropyl methacrylate	LOW	LOW
4-tert-butylcatechol	HIGH	HIGH

# Bioaccumulative potential

Ingredient	Bioaccumulation

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Ingredient	Bioaccumulation
1,4-butanediol dimethacrylate	LOW (LogKOW = 3.191)
dipropoxy-p-toluidine	LOW (LogKOW = 2.0121)
2-hydroxypropyl methacrylate	LOW (BCF = 3.2)
4-tert-butylcatechol	LOW (LogKOW = 2.9421)

#### Mobility in soil

Ingredient	Mobility
1,4-butanediol dimethacrylate	LOW (KOC = 92.37)
dipropoxy-p-toluidine	LOW (KOC = 10)
2-hydroxypropyl methacrylate	LOW (KOC = 10)
4-tert-butylcatechol	LOW (KOC = 3162)

#### **SECTION 13 Disposal considerations**

#### Waste treatment methods

- Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.

#### Otherwise:

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- ▶ Where possible retain label warnings and SDS and observe all notices pertaining to the product.
- DO NOT allow wash water from cleaning or process equipment to enter drains. Product / Packaging disposal
  - 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.
  - ▶ Recycle wherever possible or consult manufacturer for recycling options.
  - ▶ Consult State Land Waste Authority for disposal.
  - ▶ Bury or incinerate residue at an approved site.
  - Recycle containers if possible, or dispose of in an authorised landfill.

# **SECTION 14 Transport information**

## **Labels Required**

Marine Pollutant	NO
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
1,4-butanediol dimethacrylate	Not Available
silica crystalline - quartz	Not Available
dipropoxy-p-toluidine	Not Available
2-hydroxypropyl methacrylate	Not Available
4-tert-butylcatechol	Not Available

# Transport in bulk in accordance with the IGC Code

Product name	Ship Type
1,4-butanediol dimethacrylate	Not Available
silica crystalline - quartz	Not Available
dipropoxy-p-toluidine	Not Available
2-hydroxypropyl methacrylate	Not Available
4-tert-butylcatechol	Not Available

#### **SECTION 15 Regulatory information**

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

1,4-butanediol dimethacrylate is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

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silica crystalline - quartz is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Model Work Health and Safety Regulations - Hazardous chemicals (other than lead) requiring health monitoring

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

dipropoxy-p-toluidine is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

2-hydroxypropyl methacrylate 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 Australian Inventory of Industrial Chemicals (AIIC)

4-tert-butylcatechol is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

#### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (1,4-butanediol dimethacrylate; silica crystalline - quartz; dipropoxy-p-toluidine; 2-hydroxypropyl methacrylate; 4-tert-butylcatechol)
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	No (1,4-butanediol dimethacrylate; dipropoxy-p-toluidine; 4-tert-butylcatechol)
Vietnam - NCI	Yes
Russia - FBEPH	No (dipropoxy-p-toluidine)
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

#### **SECTION 16 Other information**

Revision Date	08/20/2021
Initial Date	01/24/2017

#### SDS Version Summary

Version	Date of Update	Sections Updated
7.1	11/01/2019	One-off system update. NOTE: This may or may not change the GHS classification, Identification of the substance / mixture and of the company / undertaking - Supplier Information
8.1	08/20/2021	Classification change due to full database hazard calculation/update.

#### 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 $_{\circ}$ 

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

LUAEL: Lowest Observed Adverse Επεατ Lo TLV: Threshold Limit Value

TLV: Threshold Limit Value LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

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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

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