

Chemwatch: 24-1506 Version No: 3.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 1

Issue Date: 01/11/2019 Print Date: 27/09/2020 L.GHS.AUS.EN

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

#### **Product Identifier**

Product name	Zenolite PMMA sheet
Synonyms	Polymethyl methacrylate sheet; Extruded general purpose acrylic sheet; GP acrylic sheet; PMMA Sheet
Other means of identification	Not Available

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

Relevant identified uses	Use according to manufacturer's directions.

## Details of the supplier of the safety data sheet

Registered company name	EGR
Address	84 Evans Road Salisbury Qld 4107 Australia
Telephone	+61 7 3277 7999
Fax	+61 7 3277 8054
Website	www.egrgroup.com
Email	nomalley@egr.com.au

#### Emergency telephone number

• • •	
Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

#### **SECTION 2 Hazards identification**

## Classification of the substance or mixture

## NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

#### ChemWatch Hazard Ratings

	Min	Max
Flammability	0	I
Toxicity	0	0 = Minimum
Body Contact	1 📕	1 = Low
Reactivity	1 📕	2 = Moderate
Chronic	0	4 = Extreme

Poisons Schedule	Not Applicable
Classification <sup>[1]</sup>	Not Applicable

#### Label elements

Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

## Hazard statement(s)

Not Applicable

Precautionary statement(s) Prevention	
Not Applicable	
Precautionary statement(s) Response	
Precautionary statement(s) Response	

## Precautionary statement(s) Storage

#### Not Applicable

Precautionary statement(s) Disposal

Not Applicable

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

### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
80-62-6	NotSpec	methyl methacrylate
140-88-5	NotSpec	ethyl acrylate

#### **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>Wash out immediately with fresh 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>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	If skin or hair contact occurs: ▶ Flush skin and hair with running water (and soap if available). ▶ Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

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

Treat symptomatically.

#### **SECTION 5 Firefighting measures**

#### Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

### 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>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> </ul>
Fire/Explosion Hazard	<ul> <li>The material is not readily combustible under normal conditions.</li> <li>However, it will break down under fire conditions and the organic component may burn.</li> <li>Not considered to be a significant fire risk.</li> <li>Heat may cause expansion or decomposition with violent rupture of containers.</li> <li>Other decomposition products include: carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit corrosive fumes.</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 dust and contact with skin and eyes.</li> </ul>
	<ul> <li>Wear protective clothing, gloves, safety glasses and dust respirator.</li> <li>Use dry clean up procedures and avoid generating dust.</li> </ul>
	· Ose dry clean up procedures and avoid generating dust.

Major Spills	<ul> <li>Moderate hazard.</li> <li>CAUTION: Advise personnel in area.</li> <li>Alert Emergency Services and tell them location and nature of hazard.</li> <li>Control personal contact by wearing protective clothing.</li> </ul>

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

# SECTION 7 Handling and storage

Precautions for safe handling	
Safe handling	<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>Prevent concentration in hollows and sumps.</li> <li>Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions)</li> <li>Minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame.</li> <li>Establish good housekeeping practices.</li> <li>Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry area protected from environmental extremes.</li> <li>Store away from incompatible materials and foodstuff containers.</li> </ul>

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

Suitable container	<ul> <li>Lined metal can, lined metal pail/ can.</li> <li>Plastic pail.</li> <li>Polyliner drum.</li> <li>Packing as recommended by manufacturer.</li> </ul>
Storage incompatibility	Avoid reaction with oxidising agents

## **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	methyl methacrylate	Methyl methacrylate	50 ppm / 208 mg/m3	416 mg/m3 / 100 ppm	Not Available	Not Available
Australia Exposure Standards	ethyl acrylate	Ethyl acrylate	Not Available	Not Available	5 ppm / 20 mg/m3	Not Available

#### Emergency Limits

Ingredient	Material name	TEEL-1		TEEL-2	TEEL-3
methyl methacrylate	Methyl methacrylate	Not Available		Not Available	Not Available
ethyl acrylate	Ethyl acrylate	Not Available		Not Available	Not Available
Ingredient	Original IDLH		Revis	sed IDLH	
methyl methacrylate	1,000 ppm		Not A	vailable	
ethyl acrylate	300 ppm		Not A	vailable	

## MATERIAL DATA

For ethyl acrylate:

Odour Threshold Value: 0.00024 ppm (detection), 0.00037 ppm (recognition) Saturated air at 20 deg C and 1 atm. contains 38500 ppm ethyl acrylate by volume. Exposure at or below the recommended TLV-TWA is thought to protect the worker from the significant risk of severe eye, nose and skin irritation and to minimise irritant effects of chronic exposure to ethyl acrylate vapour. The reported ability of ethyl acrylate to induce skin sensitisation in exposed human volunteers suggest that some individuals may be hypersensitive or otherwise unusually responsive from exposure to certain chemicals - these individuals may NOT be adequately protected from adverse health effects at the TLV-TWA.

Odour Threshold Value (methyl methacrylate): 0.049 ppm (detection), 0.34 ppm (recognition)

NOTE: Detector tubes measuring in excess of 50 ppm, are available.

Concentrations as low as 125 ppm methyl methacrylate have produced irritation of the mucous membranes of exposed workers. The recommended TLV-TWA is thought to be sufficiently low to protect against discomfort from irritation and acute systemic intoxication.

NOTE D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed on Annex I

When they are placed on the market in a non-stabilised form, the label must state the name of the substance followed by the words "non-stabilised"

European Union (EU) List of harmonised classification and labelling hazardous substances, Table 3.1, Annex VI, Regulation (EC) No 1272/2008 (CLP) - up to the latest ATP

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.
Appropriate engineering	The basic types of engineering controls are:
controls	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.

Page 4 of 8

## Zenolite PMMA sheet

Personal protection	
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>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.</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.
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>

## 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:

Zenolite PMMA sheet

Material	CPI
PVA	A
TEFLON	А
BUTYL	С
BUTYL/NEOPRENE	С
PE/EVAL/PE	С
VITON/NEOPRENE	С

\* 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.

## Respiratory protection

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

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A P1 Air-line*	-	A PAPR-P1 -
up to 50 x ES	Air-line**	A P2	A PAPR-P2
up to 100 x ES	-	A P3	-
		Air-line*	-
100+ x ES	-	Air-line**	A PAPR-P3

\* - Negative pressure demand \*\* - Continuous flow

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)

- Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
- Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- Use approved positive flow mask if significant quantities of dust becomes airborne.
- Try to avoid creating dust conditions.

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

Information on basic physical and chemical properties				
Appearance	Solid sheet; does not mix with water			
Physical state	Solid	Relative density (Water = 1)	1.18	
Odour	Not Available	Partition coefficient n-octanol / water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature (°C)	465	
pH (as supplied)	Not Available	Decomposition temperature	280	
Melting point / freezing point (°C)	97-120(softening point)	Viscosity (cSt)	Not Available	

Initial boiling point and boiling range (°C)	Not Applicable	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 Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
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 Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
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).
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	Limited evidence exists, or practical experience suggests, that the material may cause eye irritation in a substantial number of individuals and/or is expected to produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

	ΤΟΧΙΟΙΤΥ	IRRITATION
Zenolite PMMA sneet	Not Available	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
	=300 mg/kg <sup>[2]</sup>	Eye (rabbit): 150 mg
	=500-5000 mg/kg <sup>[2]</sup>	Skin (rabbit): 10000 mg/kg (open)
	=7500-15000 mg/kg <sup>[2]</sup>	
	125 mg/kg <sup>[2]</sup>	
	1252 mg/kg <sup>[2]</sup>	
	2643 mg/kg <sup>[2]</sup>	
	60 mg/kg <sup>[2]</sup>	
	8500-9400 mg/kg <sup>[1]</sup>	
methyl methacrylate	Dermal (rabbit) LD50: >5000 mg/kg <sup>[2]</sup>	
	Inhalation (rat) LC50: 3745.72125 mg//* <sup>[2]</sup>	
	Inhalation (rat) LC50: 78 mg/l/4H <sup>[2]</sup>	
	Oral (guinea pig) LD50: =5900 mg/kg <sup>[2]</sup>	
	Oral (mouse) LD50: =5200 mg/kg <sup>[2]</sup>	
	Oral (mouse) LD50: =5300 mg/kg <sup>[2]</sup>	
	Oral (rabbit) LD50: =6000 mg/kg <sup>[2]</sup>	
	Oral (rat) LD50: =8000 mg/kg <sup>[2]</sup>	
	Oral (rat) LD50: =8500 mg/kg <sup>[2]</sup>	

	Oral (rat) LD50: 7872 mg/kg <sup>[2]</sup>	
	тохісіту	IRRITATION
	~554 mg/kg <sup>[2]</sup>	Eye (rabbit): 1204 ppm/7h
	400-280 mg/kg <sup>[2]</sup>	Eye (rabbit): 45 mg - mild
	600 mg/kg <sup>[2]</sup>	Skin (rabbit): 10 mg/24h - mild
ethyl acrylate	860 mg/kg <sup>[2]</sup>	Skin (rabbit): 500 mg open - mild
	Oral (rabbit) LD50: =1000 mg/kg <sup>[2]</sup>	
	Oral (rat) LD50: =1020 mg/kg <sup>[2]</sup>	
	Oral (rat) LD50: =2000 mg/kg <sup>[2]</sup>	
Legend:	<ol> <li>Value obtained from Europe ECHA Registered Substances - Acute to specified data extracted from RTECS - Register of Toxic Effect of chemi</li> </ol>	xicity 2.* Value obtained from manufacturer's SDS. Unless otherwise ical Substances

METHYL METHACRYLATE	For methyl methacrylate: Acute toxicity: MMA is rapidly absorbed after oral or inhalatory administration. <i>In vitro</i> skin absorption studies in human skin indicate that MMA can be absorbed through human skin. After inhalation to rats 10 to 20% of the substance is deposited in the upper respiratory tract where it is metabolised by local tissue esterases. Acute toxicity of MMA by the oral, dermal, and inhalative routes is low as judged by tests with different species: The oral LD50 for rats, mice, and rabbits is found to exceed 5000 mg/kg bw. Acute inhalation toxicity for rats and mice is described by LC50 values of > 25 mg/l/4 hours. Acute dermal toxicity is reported for rabbits to exceed 5000 mg/kg bw. Skin and respiratory irritation are reported for subjects exposed to monomeric MMA. The substance has been shown to produce severe skin irritation when tested undiluted on rabbit skin. The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing. Inhalation (human) TCLo: 60 mg/m3(15 ppm) [* Manuf. Rohm & Haas]		
ETHYL ACRYLATE	The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. 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. <b>WARNING:</b> This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. Tenth Annual Report on Carcinogens: Substance anticipated to be Carcinogen [ <i>Mational Taxicology Program: U.S. Den of Health &amp; Human Services 2002</i> ]		
METHYL METHACRYLATE & ETHYL ACRYLATE	The following information refers to contact allergens a Contact allergies quickly manifest themselves as cont eczema involves a cell-mediated (T lymphocytes) imm involve antibody-mediated immune reactions. The sig distribution of the substance and the opportunities for Asthma-like symptoms may continue for months or ev condition known as reactive airways dysfunction synd compound. Key criteria for the diagnosis of RADS inc onset of persistent asthma-like symptoms within minu spirometry, with the presence of moderate to severe to lymphocytic inflammation, without eosinophilia, have a Where no "official" classification for acrylates and met of contrary evidence. For example Monalkyl or monoarylesters of methacrylic acid should be Monoalkyl or monoarylesters of methacrylic acid sho Based on the available oncogenicity data and without Review Division (HERD), Office of Toxic Substances of methacrylate moiety (CH2=CHCOO or CH2=C(CH3)C adequate testing. This position has now been revised and acrylates and	Is a group and may not be specific to the act eczema, more rarely as urticaria of nune reaction of the delayed type. Other inificance of the contact allergen is not contact with it are equally important. It is the action of the contact allergen is not contact with it are equally important. It is the absence of preceding respiration of a documented exposure to hours of a documented exposure of the carteria for distribution of the criteria for distribution of the criteria for distribution of a statistic of the criteria for distribution of a statistic of a s	this product. or Quincke's oedema. The pathogenesis of contact ner allergic skin reactions, e.g. contact urticaria, t simply determined by its sensitisation potential: the al ceases. This may be due to a non-allergenic ng exposure to high levels of highly irritating tory disease, in a non-atopic individual, with abrupt re to the irritant. A reversible airflow pattern, on line challenge testing and the lack of minimal iagnosis of RADS. tious attempts to create classifications in the absence genic mechanism the Health and Environmental sluded that all chemicals that contain the acrylate or irrinogenic hazard unless shown otherwise by o carcinogens.
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
		Legend: 🔀 – Data either r	not available or does not fill the criteria for classification

Legend: X – Dai

Data evaluation for available of uses from in the chiena for classification
 Data available to make classification

# **SECTION 12 Ecological information**

Toxicity					
	Endpoint	Test Duration (hr)	Species	Value	Source
Zenolite PMMA sheet	Not Available	Not Available	Not Available	Not Available	Not Available

	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	>79mg/L	2
methyl methacrylate	EC50	48	Crustacea	69mg/L	2
	EC50	72	Algae or other aquatic plants	>1-260mg/L	2
	NOEC	504	Crustacea	37mg/L	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	Endpoint LC50	Test Duration (hr) 96	Species Fish	Value 1.1mg/L	Source
	Endpoint LC50 EC50	Test Duration (hr) 96 48	Species           Fish           Crustacea	Value           1.1mg/L           1.3mg/L	Source 2 2
ethyl acrylate	Endpoint LC50 EC50 EC50	Test Duration (hr)           96           48           72	Species       Fish       Crustacea       Algae or other aquatic plants	Value           1.1mg/L           1.3mg/L           1.71mg/L	<b>Source</b> 2 2 2
ethyl acrylate	Endpoint LC50 EC50 EC50 EC0	Test Duration (hr)           96           48           72           48	Species         Fish         Crustacea         Algae or other aquatic plants         Crustacea	Value           1.1mg/L           1.3mg/L           1.71mg/L           0.7mg/L	Source           2           2           2           2           2           2           2
ethyl acrylate	Endpoint LC50 EC50 EC0 NOEC	Test Duration (hr)           96           48           72           48           504	Species         Fish         Crustacea         Algae or other aquatic plants         Crustacea         Crustacea         Crustacea	Value           1.1mg/L           1.3mg/L           1.71mg/L           0.7mg/L           0.136mg/L	Source           2           2           2           2           2           2           2           2           2           2           2

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
methyl methacrylate	LOW	LOW
ethyl acrylate	LOW (Half-life = 14 days)	LOW (Half-life = 0.95 days)

## Bioaccumulative potential

Ingredient	Bioaccumulation
methyl methacrylate	LOW (BCF = 6.6)
ethyl acrylate	LOW (LogKOW = 1.32)

## Mobility in soil

Ingredient	Mobility
methyl methacrylate	LOW (KOC = 10.14)
ethyl acrylate	LOW (KOC = 11.85)

## **SECTION 13 Disposal considerations**

Waste treatment methods	
Product / Packaging disposal	<ul> <li>Recycle wherever possible.</li> <li>Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.</li> <li>Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material)</li> <li>Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.</li> </ul>

#### **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

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

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

## methyl 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  $6\,$ 

Australian Inventory of Industrial Chemicals (AIIC)

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

ethyl acrylate is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals 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 2B : Possibly carcinogenic to humans

#### **National Inventory Status**

National Inventory	Status
Australia - AIIC	Yes
Australia - Non-Industrial Use	No (methyl methacrylate; ethyl acrylate)
Canada - DSL	Yes
Canada - NDSL	No (methyl methacrylate; ethyl acrylate)
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 - ARIPS	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	17/08/2010

#### **SDS Version Summary**

Version	Issue Date	Sections Updated
3.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification

#### 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 OSF: Odour Safety Factor NOAEL: No Observed Adverse Effect Level LOAEL: No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LODE Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

This document is copyright.

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH. TEL (+61 3) 9572 4700.