

2100 Windshield Saver Repair Kit Adhesive Griffiths Equipment Limited

Chemwatch: 5435-46 Version No: 2.1.1.1

Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Chemwatch Hazard Alert Code: 4

Issue Date: **29/10/2020** Print Date: **04/11/2020** S.GHS.NZL.EN

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

Product Identifier

Product name	2100 Windshield Saver Repair Kit Adhesive	
Synonyms	Not Available	
Proper shipping name	CORROSIVE LIQUID, N.O.S. (contains acrylic acid)	
Other means of identification	Not Available	

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

Relevant identified uses	Glass repair resin. Monomer Use according to manufacturer's directions.
	Use according to manufacturer's directions.

Details of the supplier of the safety data sheet

Registered company name	Griffiths Equipment Limited
Address	19 Bell Ave, Mount Wellington Auckland 1060 New Zealand
Telephone	+64 9 525 4575
Fax	Not Available
Website	www.griffithsequipment.co.nz
Email	sales@griffithsequipment.co.nz

Emergency telephone number

Association / Organisation	NZ NATIONAL POISONS CENTRE
Emergency telephone numbers	0800 POISON or 0800 764-766
Other emergency telephone numbers	International: +64 3 479-7227

SECTION 2 Hazards identification

Classification of the substance or mixture

Classification ^[1]	Skin Corrosion/Irritation Category 1A, Serious Eye Damage Category 1, Skin Sensitizer Category 1, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), Chronic Aquatic Hazard Category 2	
Legend:	1. Classified by Chernwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	
Determined by Chemwatch using GHS/HSNO criteria	6.1E (respiratory), 8.2A, 8.3A, 6.5B (contact), 9.1B	

Label elements

Hazard pictogram(s)	
Signal word	Danger

Hazard statement(s)

H314	Causes severe skin burns and eye damage.
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

P260 Do not breathe mist/vapours/spray.	
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.

Precautionary statement(s) Response

P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P310	Immediately call a POISON CENTER/doctor/physician/first aider.	
P321	Specific treatment (see advice on this label).	
P302+P352	IF ON SKIN: Wash with plenty of water and soap.	
P363	Wash contaminated clothing before reuse.	
P333+P313	If skin irritation or rash occurs: 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
5888-33-5	50-75	iso-bornyl acrylate
868-77-9	15-25	2-hydroxyethyl methacrylate
79-10-7	5-10	acrylic acid
2530-85-0	1-5	3-(trimethoxysilyl)propyl methacrylate
947-19-3	1-5	1-hydroxycyclohexyl phenyl ketone

SECTION 4 First aid measures

Description of first aid measures

Eye Contact	 If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin or hair contact occurs: Immediately flush body and clothes with large amounts of water, using safety shower if available. Quickly remove all contaminated clothing, including footwear. Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. Transport to hospital, or doctor.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. 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. Transport to hospital, or doctor, without delay. Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema. Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs). As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi-recumbent posture) and must be kept under medical observation even if no symptoms are (yet) manifested. Before any such manifestation, the administration of a spray containing a dexamethasone derivative or beclomethasone derivative may be considered. This must definitely be left to a doctor or person authorised by him/her.

	(ICSC13719)
Ingestion	 For advice, contact a Poisons Information Centre or a doctor at once. Urgent hospital treatment is likely to be needed. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Transport to hospital or doctor without delay. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

Indication of any immediate medical attention and special treatment needed

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours. Treat symptomatically.

For acute or short term repeated exposures to strong acids:

- Airway problems may arise from laryngeal edema and inhalation exposure. Treat with 100% oxygen initially.
- * Respiratory distress may require cricothyroidotomy if endotracheal intubation is contraindicated by excessive swelling

• Intravenous lines should be established immediately in all cases where there is evidence of circulatory compromise.

Strong acids produce a coagulation necrosis characterised by formation of a coagulum (eschar) as a result of the dessicating action of the acid on proteins in specific tissues. INGESTION:

- ▶ Immediate dilution (milk or water) within 30 minutes post ingestion is recommended.
- DO NOT attempt to neutralise the acid since exothermic reaction may extend the corrosive injury.
- Be careful to avoid further vomit since re-exposure of the mucosa to the acid is harmful. Limit fluids to one or two glasses in an adult.
- Charcoal has no place in acid management.
- Some authors suggest the use of lavage within 1 hour of ingestion.
- SKIN:

Skin lesions require copious saline irrigation. Treat chemical burns as thermal burns with non-adherent gauze and wrapping.

- Deep second-degree burns may benefit from topical silver sulfadiazine.
- EYE:
- Eye injuries require retraction of the eyelids to ensure thorough irrigation of the conjuctival cul-de-sacs. Irrigation should last at least 20-30 minutes. DO NOT use neutralising agents or any other additives. Several litres of saline are required.
- Cycloplegic drops, (1% cyclopentolate for short-term use or 5% homatropine for longer term use) antibiotic drops, vasoconstrictive agents or artificial tears may be indicated dependent on the severity of the injury.
- Steroid eye drops should only be administered with the approval of a consulting ophthalmologist).

[Ellenhorn and Barceloux: Medical Toxicology]

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

Advice for firefighters

Advice for firefighters	
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use fire fighting procedures suitable for surrounding area. Do not approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	 WARNING: In use may form flammable/ explosive vapour-air mixtures. Combustible. Slight fire hazard when exposed to heat or flame. Acids may react with metals to produce hydrogen, a highly flammable and explosive gas. Heating may cause expansion or decomposition leading to violent rupture of containers. May emit acrid smoke and corrosive fumes. Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) nitrogen oxides (NOx) silicon dioxide (SiO2) other pyrolysis products typical of burning organic material. May emit clouds of acrid smoke

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material. Check regularly for spills and leaks. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Consider evacuation (or protect in place). 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	 Most acrylic monomers have low viscosity therefore pouring, material transfer and processing of these materials do not necessitate heating. 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. Do NOT use localised heat sources such as band heaters to head/ melt product. Do NOT use steam. Hot boxes or hot rooms are recommended for heating/ melting material. The hot box or hot room should be set a maximum temperature of 60 deg. C. (140 F). Do NOT overheat - this may compromise product quality and /or result in an uncontrolled hazardous polymerisation. If product freezes, heat as indicated above and mix gently to redistribute the inhibitor. Product should be consumed in its entirety after heating/ melting; avoid multiple "reheats" which may affect product quality or result in product degradation. Product freezes, head as indicated above and mix gently to redistribute the inhibitor. Product sinhibitor(s) require the presence of dissolved oxygen. Maintain, at a minimum, the original headspace in the product container and do NOT blanket or mix with oxygen-free gas as it renders the inhibitor ineffective. Ensure air space (oxygen) is present during product heating / melting. Store product indoors at temperatures greater than the product's freeing point (or greater than 0 deg. C. (32 F).) if no freezing point available and below 38 deg. C (100 F). Avoid prolonged storage (longer than shelf-life) storage temperatures above 38 deg. C (100 F). Store in tightly closed containers in a property vented storage area away from heat, sparks, open flame, strong oxidisers, radiation and other initiators. Prevent containitation by foreign materials. Prevent containitatin by foreign materials. Prevent con
Other information	 Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained. Polymerisation may occur slowly at room temperature. Storage requires stabilising inhibitor content and dissolved oxygen content to be monitored. Refer to manufacturer's recommended levels. DO NOT overfill containers so as to maintain free head space above product. Blanketing or sparging with nitrogen or oxygen free gas will deactivate stabiliser. Store below 38 deg. C. Store below 38 deg. C. Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container	For acrylates or methacrylates:
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	Storage tanks and pipes should be made of stainless steel or aluminium.
	Although they do not corrode carbon steel, there is a risk of contamination if corrosion does occur.
	 DO NOT use aluminium or galvanised containers Check regularly for spills and leaks For low viscosity materials Drums and jerricans must be of the non-removable head type. Where a can is to be used as an inner package, the can must have a screwed enclosure. For materials with a viscosity of at least 2680 cSt. (23 deg. C) and solids (between 15 C deg. and 40 deg C.): Removable head packaging; Cans with friction closures and
	 I ow pressure tubes and cartridges
	may be used.
	 Where combination packages are used, and the inner packages are of glass, porcelain or stoneware, there must be sufficient inert cushioning material in contact with inner and outer packages unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic. Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	 Amines and thiosulfates. Avoid reaction with oxidising agents, bases and strong reducing agents. Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	acrylic acid	Acrylic acid	2 ppm / 5.9 mg/m3	Not Available	Not Available	skin-Skin absorption

Emergency Limits					
Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3	
2-hydroxyethyl methacrylate	Hydroxyethyl methacrylate, 2-	1.9 mg/m3	21 mg/m3	1,000 mg/m3	
acrylic acid	Acrylic acid	Not Available	Not Available	Not Available	
3-(trimethoxysilyl)propyl methacrylate	Trimethoxysilylpropyl methacrylate, 3-; (Silane A-174)	71 mg/m3	780 mg/m3	4,700 mg/m3	
Ingredient	Original IDLH	Revised IDLH			
iso-bornyl acrylate	Not Available	Not Available	Not Available		
2-hydroxyethyl methacrylate	Not Available	Not Available	Not Available		
acrylic acid	Not Available	Not Available	Not Available		
3-(trimethoxysilyl)propyl methacrylate	Not Available	Not Available			
1-hydroxycyclohexyl phenyl ketone	Not Available	Not Available			

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
iso-bornyl acrylate	E	≤ 0.1 ppm	
2-hydroxyethyl methacrylate	E	≤ 0.1 ppm	
3-(trimethoxysilyl)propyl methacrylate	E	≤ 0.1 ppm	
1-hydroxycyclohexyl phenyl ketone	E	≤ 0.01 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. 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. Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. An approved self contained breathing apparatus (SCBA) may be required in some situations. Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying "escape"
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	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 (ir	0.25-0.5 m/s (50-100 f/min.)				
	aerosols, fumes from pouring operations, intermittent conta	0.5-1 m/s (100-200 f/min.)				
	drift, plating acid fumes, pickling (released at low velocity in direct spray, spray painting in shallow booths, drum filling, o		1-2.5 m/s (200-500			
	generation into zone of rapid air motion) grinding, abrasive blasting, tumbling, high speed wheel ger	erated dusts (released at high initial velocity into zone of	f/min.) 2.5-10 m/s			
	very high rapid air motion). Within each range the appropriate value depends on:		(500-2000 f/min.)			
	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				
	with the square of distance from the extraction point (in simple accordingly, after reference to distance from the contaminatin 1-2 m/s (200-400 f/min) for extraction of solvents generated in producing performance deficits within the extraction apparatu more when extraction systems are installed or used. CARE: Use of a quantity of this material in confined space or could require increased ventilation and/or protective gear	g source. The air velocity at the extraction fan, for example, n a tank 2 meters distant from the extraction point. Other me s, make it essential that theoretical air velocities are multipli	should be a minimum echanical consideration ed by factors of 10 or			
Personal protection						
Eye and face protection	 Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] 					
Skin protection	See Hand protection below					
Hands/feet protection	 240 minutes according to EN 374, AS/NZS 2161.10.1 or natio. When only brief contact is expected, a glove with a pro EN 374, AS/NZS 2161.10.1 or national equivalent) is recomm Some glove polymer types are less affected by movem use. Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are is Excellent when breakthrough time > 480 min Good when breakthrough time > 20 min Fair when breakthrough time > 20 min Poor when glove material degrades For general applications, gloves with a thickness typically gree It should be emphasised that glove thickness is not necessari efficiency of the glove will be dependent on the exact compose consideration of the task requirements and knowledge of bree Glove thickness may also vary depending on the glove manuful technical data should always be taken into account to ensure Note: Depending on the activity being conducted, gloves of variable. 	ed individuals. Care must be taken, when removing gloves a ttch-bands should be removed and destroyed. material, but also on further marks of quality which vary from substances, the resistance of the glove material can not be red from the manufacturer of the protective gloves and has to wes must only be worn on clean hands. After using gloves, moisturiser is recommended. Important factors in the selection of gloves include: T4, US F739, AS/NZS 2161.1 or national equivalent). Excur, a glove with a protection class of 5 or higher (breakthrough a equivalent) is recommended. Tection class of 3 or higher (breakthrough time greater than hended. The and this should be taken into account when considering rated as: Tater than 0.35 mm, are recommended. Therefore, glove selection should akthrough times. Tacturer, the glove type and the glove model. Therefore, the selection of the most appropriate glove for the task.	n manufacturer to calculated in advance to be observed when hands should be ough time greater than 60 minutes according to gloves for long-term al, as the permeation d also be based on manufacturers'			

	 Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. General warning: Do NOT use latex gloves! Use only recommended gloves - using the wrong gloves may increase the risk: 		
	Exposure condition Short time use; (few minutes less than 0.5 hour) Little physical stress	Use of thin nitrile rubber gloves: Nitrile rubber (0.1 mm) Excellent tactibility ("feel"), powder-free Disposable Inexpensive Give adequate protection to low molecular weigh acrylic monomers	
	Exposure condition Medium time use; less than 4 hours Physical stress (opening drums, using tools, etc.)	Use of medium thick nitrile rubber gloves Nitrile rubber, NRL (latex) free; <0.45 mm Moderate tactibility ("feel"), powder-free Disposable Moderate price 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	
	Exposure condition Long time Cleaning operations	Nitrile rubber, NRL (latex) free; >0.56 mm low tactibility ("feel"), powder free High price Gives adequate protection for most acrylates in combination with commonly used solvents up to 8 hours 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 multilayer gloves. Guide to the Classification and Labelling of UV/EB Acrylates Third edition, 231 October 2007 - Cefic		
Body protection	See Other protection below		
Other protection	 Overalls. PVC Apron. PVC protective suit may be required if exposure severe. Eyewash unit. Ensure there is ready access to a safety shower. 		

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:

2100 Windshield Saver Repair Kit Adhesive

Material	СРІ
BUTYL	A
SARANEX-23	A
VITON	В
PE	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 AB-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	AB-AUS P2	-	AB-PAPR-AUS / Class 1 P2
up to 50 x ES	-	AB-AUS / Class 1 P2	-
up to 100 x ES	-	AB-2 P2	AB-PAPR-2 P2 ^

^ - 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)

- 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

Avoid inhalation.

SECTION 9 Physical and chemical properties

Information	on basic	nhysical	and chemica	al properties
mormation	ULL Dasie	pilysical	and chemica	a properties

Appearance	Fluid; does not mix in water.		
Physical state	Liquid	Relative density (Water = 1)	Not Available

Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	101 (CC)	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 Available
Lower Explosive Limit (%)	Not Available	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	 Polymerisation may occur at elevated temperatures. Polymerisation may be accompanied by generation of heat as exotherm. Process is self accelerating as heating causes more rapid polymerisation. Exotherm may cause boiling with generation of acrid, toxic and flammable vapour. Polymerisation and exotherm may be violent if contamination with strong acids, amines or catalysts occurs. Polymerisation and exotherm of material in bulk may be uncontrollable and result in rupture of storage tanks. Polymerisation may occur if stabilising inhibitor becomes depleted by aging. Stabilising inhibitor requires dissolved oxygen to be present in liquid for effective action. Specific storage requirements must be met for stability on ageing and transport. Contact with alkaline material liberates heat
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 The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Corrosive acids can cause irritation of the respiratory tract, with coughing, choking and mucous membrane damage. There may be dizziness, headache, nausea and weakness. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. The stomach and intestines are sites of absorption of inhaled acrylic acid following dissolution in the upper airways, transport and swallowing. Excretion appears be through the breath or through urine production by the kidneys. It causes pronounced irritation of the airways, giving some Inhaled warning of exposure. Exposure may cause reduced breathing, irreversible eye and skin changes, low body weight and reduced urine in rats. Acrylic acid also inflames the upper airway and damages the lining of the stomach. Death occurs at very high doses from bleeding in the lungs and degeneration of the liver and kidney. If irritation occurs, seek to reduce exposure with ventilation and other control measures, or use personal protective equipment. Otherwise, evacuate the area. Inhalation hazard is increased at higher temperatures. Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination. Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful. Ingestion of acidic corrosives may produce burns around and in the mouth, the throat and oesophagus. Immediate pain and difficulties in Ingestion swallowing and speaking may also be evident. Accidental ingestion of the material may be damaging to the health of the individual. Skin contact with acidic corrosives may result in pain and burns; these may be deep with distinct edges and may heal slowly with the formation of scar tissue. Acrylic acid is a definite skin sensitiser and can cause features of allergic skin reactions. Skin Contact Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions 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. If applied to the eyes, this material causes severe eye damage. Eye Irritation of the eyes may produce a heavy secretion of tears (lachrymation). Repeated or prolonged exposure to acids may result in the erosion of teeth, swelling and/or ulceration of mouth lining. Irritation of airways to lung, with cough, and inflammation of lung tissue often occurs. Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. Chronic Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment Respiratory sensitisation may result in allergic/asthma like responses; from coughing and minor breathing difficulties to bronchitis with wheezing, gasping

100 Windshield Saver Repair	ΤΟΧΙΟΙΤΥ	IRRITATION	
Kit Adhesive	Not Available	Not Available	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Dermal (rabbit) LD50: >5000 mg/kg ^[2]	Eye (rabbit): slight	
iso-bornyl acrylate	Oral (rat) LD50: 2300 mg/kg ^[2]	Skin (rabbit): slight	
	Oral (rat) LD50: 4000 mg/kg ^[2]		
	тохісіту	IRRITATION	
	Oral (guinea pig) LD50: =4680 mg/kg ^[2]	Eye (rabbit): SEVERE *	
	Oral (mouse) LD50: =3275 mg/kg ^[2]	Eye: adverse effect observed (irritating) ^[1]	
2-hydroxyethyl methacrylate	Oral (mouse) LD50: =5457 mg/kg ^[2]	Skin (rabbit): non-irritating*	
	Oral (mouse) LD50: =5888 mg/kg ^[2]	Skin: no adverse effect observed (not irritating) ^[1]	
	Oral (rat) LD50: =5050 mg/kg ^[2]		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	~140 mg/kg ^[2]	Not Available	
	~16.2 mg/kg ^[2]		
	~23.6 mg/kg ^[2]		
	144 mg/kg ^[2]		
	1590 mg/kg ^[2]		
acrylic acid	24 mg/kg ^[2]		
	Inhalation (mouse) LC50: 2.65 mg/l/2h ^[2]		
	mg/kg ^[2]		
	Oral (rabbit) LD50: =250 mg/kg ^[2]		
	Oral (rat) LD50: =1250 mg/kg ^[2]		
	Oral (rat) LD50: =1350 mg/kg ^[2]		
	Oral (rat) LD50: =2520 mg/kg ^[2]		
	Oral (rat) LD50: =33.5 mg/kg ^[2]		
	Oral (rat) LD50: =360 mg/kg ^[2]		
	Oral (rat) LD50: 151-526 mg/kg ^[2]		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Dermal (rabbit) LD50: >2100 mg/kg ^[2]	Eye (rabbit): 500 mg/24h - mild	
3-(trimethoxysilyl)propyl	Oral (rat) LD50: 23200 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]	
methacrylate	Oral (rat) LD50: 3000 mg/kg ^[2]	Skin (rabbit): 500 mg/24h - mild	
		Skin: no adverse effect observed (not irritating) ^[1]	
	TOXICITY	IRRITATION	
	Oral (rat) LD50: 2895 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]	
1-hydroxycyclohexyl phenyl ketone		Eye: Non-irritating	
Reterie		Skin: no adverse effect observed (not irritating) ^[1]	
		Skin: Non-irritating	
Legend:	1. Value obtained from Europe ECHA Registered Substance specified data extracted from RTECS - Register of Toxic Eff	es - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise ect of chemical Substances	
ISO-BORNYL ACRYLATE	UV (ultraviolet) / EB (electron beam) acrylates are generally of low toxicity. UV/EB acrylates are divided into two groups the "stenomeric" and "eurymeric" acrylates. Stenomeric acrylates are usually more hazardous than the eurymeric substances. Data for similar material		
2-HYDROXYETHYL METHACRYLATE	Dermal (rabbit): >5000 mg/kg* Effects persist beyond 21 days 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: th 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		

2100 Windshield Saver Repair Kit Adhesive

ACRYLIC ACID	For acrylic acid: The absorption of acrylic acid is dependent on the pH and solvent and its concentration. The pure substance is severely corrosive, and the substance is therefore harmful if swallowed or encountered via skin contact. Acute inhalation toxicity is low. It causes skin corrosion, skin sensitisation and irritation of the airway in humans. In animals, repeated exposure can cause kidney damage, damage to the nose, irritation and ulceration of the stomach, and even death. Some tests appear to show that acrylic acid causes mutations. There is currently no evidence that acrylic acid causes cancer. In animal testing, acrylic acid does not seem to reduce fertility, but it has reduced growth in juveniles. The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration.		
3-(TRIMETHOXYSILYL)PROPYL METHACRYLATE	Low molecular weight alkoxysilane can cause irreversible lung damage when inhaled at low dose. It is not an obvious skin irritant. However, studies suggest with repeated occupational exposure, methoxysilane may cause damage to the eye and skin as well as cancer. 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 on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.		
1-HYDROXYCYCLOHEXYL PHENYL KETONE	for Irgacure 184		
ISO-BORNYL ACRYLATE & 2-HYDROXYETHYL METHACRYLATE & ACRYLIC ACID & 3-(TRIMETHOXYSILYL)PROPYL METHACRYLATE & 1-HYDROXYCYCLOHEXYL PHENYL KETONE	Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. 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. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.		
ISO-BORNYL ACRYLATE & 2-HYDROXYETHYL	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 <i>de facto</i> carcinogens. 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		
METHACRYLATE & 3-(TRIMETHOXYSILYL)PROPYL METHACRYLATE	Where no "official" classification for acrylates and me absence of contrary evidence. For example Monalkyl or monoarylesters of acrylic acids should be	thacrylates exists, there have been ca e classified as R36/37/38 and R51/53	
3-(TRIMETHOXYSILYL)PROPYL	Where no "official" classification for acrylates and me absence of contrary evidence. For example Monalkyl or monoarylesters of acrylic acids should be	thacrylates exists, there have been ca e classified as R36/37/38 and R51/53	
3-(TRIMETHOXYSILYL)PROPYL METHACRYLATE	Where no "official" classification for acrylates and me absence of contrary evidence. For example Monalkyl or monoarylesters of acrylic acids should be Monoalkyl or monoaryl esters of methacrylic acid sho	e classified as R36/37/38 and R51/53 buld be classified as R36/37/38	autious attempts to create classifications in the
3-(TRIMETHOXYSILYL)PROPYL METHACRYLATE Acute Toxicity	Where no "official" classification for acrylates and me absence of contrary evidence. For example Monalkyl or monoarylesters of acrylic acids should b Monoalkyl or monoaryl esters of methacrylic acid sho	e classified as R36/37/38 and R51/53 buld be classified as R36/37/38	autious attempts to create classifications in the
3-(TRIMETHOXYSILYL)PROPYL METHACRYLATE Acute Toxicity Skin Irritation/Corrosion	Where no "official" classification for acrylates and me absence of contrary evidence. For example Monalkyl or monoarylesters of acrylic acids should bu Monoalkyl or monoaryl esters of methacrylic acid sho X	e classified as R36/37/38 and R51/53 build be classified as R36/37/38 Carcinogenicity Reproductivity	autious attempts to create classifications in the

Data available to make classification

SECTION 12 Ecological information

	Endpoint	Test Duration (hr)	Species	Value	Source
2100 Windshield Saver Repair Kit Adhesive	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	0.704mg/L	2
iso-bornyl acrylate	EC50	72	Algae or other aquatic plants	0.596mg/L	2
	NOEC	504	Crustacea	0.092mg/L	2
	Endpoint	Test Duration (hr)	Species	Value	Sourc
2-hydroxyethyl methacrylate	LC50	96	Fish	>100mg/L	2
	EC50	48	Crustacea	210mg/L	2
	EC50	72	Algae or other aquatic plants	>1-260mg/L	2
	NOEC	504	Crustacea	24.1mg/L	2
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	LC50	96	Fish	>1-mg/L	2
aan dia aai d	EC50	48	Crustacea	27.9mg/L	2
acrylic acid	EC50	72	Algae or other aquatic plants	0.04mg/L	2
	EC10	72	Algae or other aquatic plants	=0.01mg/L	1
	NOEC	72	Algae or other aquatic plants	=0.008mg/L	1
	Endpoint	Test Duration (hr)	Species	Value	Source
3-(trimethoxysilyl)propyl methacrylate	LC50	96	Fish	>1-42mg/L	2

EC50	48	Crustacea	>100mg/L	2
EC50	72	Algae or other aquatic plants	>100mg/L	2
NOEC	96	Fish	>=1-42mg/L	2
	Test Densities (Le)	0	Malaa	0
Endpoint	Test Duration (hr)	Species	Value	Source
LC50	96	Fish	24mg/L	2
EC50	48	Crustacea	53.9mg/L	2
EC50	72	Algae or other aquatic plants	4.68mg/L	2
EC10	72	Algae or other aquatic plants	1.84mg/L	2
NOEC	72	Algae or other aquatic plants	0.7mg/L	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				
	EC50 NOEC Endpoint LC50 EC50 EC50 EC10 NOEC Extracted from V3.12 (QSAR	EC50 72 NOEC 96 Endpoint Test Duration (hr) LC50 96 EC50 48 EC50 72 EC10 72 NOEC 72 Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Register V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ec	EC50 72 Algae or other aquatic plants NOEC 96 Fish Endpoint Test Duration (hr) Species LC50 96 Fish EC50 48 Crustacea EC50 72 Algae or other aquatic plants EC10 72 Algae or other aquatic plants NOEC 72 Algae or other aquatic plants Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquitic plants	EC50 72 Algae or other aquatic plants >100mg/L NOEC 96 Fish >=1-42mg/L Endpoint Test Duration (hr) Species Value LC50 96 Fish 24mg/L EC50 48 Crustacea 53.9mg/L EC50 72 Algae or other aquatic plants 4.68mg/L EC10 72 Algae or other aquatic plants 1.84mg/L NOEC 72 Algae or other aquatic plants 0.7mg/L Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. El V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Ax

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

Prevent, by any means available, spillage from entering drains or water courses.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
iso-bornyl acrylate	HIGH	HIGH
2-hydroxyethyl methacrylate	LOW	LOW
acrylic acid	HIGH (Half-life = 180 days)	LOW (Half-life = 0.99 days)
3-(trimethoxysilyl)propyl methacrylate	HIGH	HIGH
1-hydroxycyclohexyl phenyl ketone	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
iso-bornyl acrylate	MEDIUM (LogKOW = 4.2116)
2-hydroxyethyl methacrylate	LOW (BCF = 1.54)
acrylic acid	LOW (LogKOW = 0.35)
3-(trimethoxysilyl)propyl methacrylate	LOW (LogKOW = 0.7532)
1-hydroxycyclohexyl phenyl ketone	LOW (LogKOW = 2.4408)

Mobility in soil

Ingredient	Mobility
iso-bornyl acrylate	LOW (KOC = 980.2)
2-hydroxyethyl methacrylate	HIGH (KOC = 1.043)
acrylic acid	HIGH (KOC = 1.201)
3-(trimethoxysilyl)propyl methacrylate	LOW (KOC = 2029)
1-hydroxycyclohexyl phenyl ketone	LOW (KOC = 49.78)

SECTION 13 Disposal considerations

Waste treatment methods	
Product / Packaging disposal	 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. Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: Reduction Recycling Disposal (if all else fails) This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be

applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.
DO NOT allow wash water from cleaning or process equipment to enter drains.
It may be necessary to collect all wash water for treatment before disposal.
In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
Where in doubt contact the responsible authority.
Recycle wherever possible.
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.
Treat and neutralise at an approved treatment plant. Treatment should involve: Neutralisation with soda-ash or soda-lime followed by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus
Decontaminate empty containers with 5% aqueous sodium hydroxide or soda ash, followed by water. Observe all label safeguards until containers are cleaned and destroyed.

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

Disposal Requirements

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous. Only dispose to the environment if a tolerable exposure limit has been set for the substance.

Only deposit the hazardous substance into or onto a landfill or sewage facility or incinerator, where the hazardous substance can be handled and treated appropriately.

SECTION 14 Transport information

Labels Required

Marine Pollutant	
HAZCHEM	2X

Land transport (UN)

,			
UN number	760		
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (contains acrylic acid)		
Transport hazard class(es)	Class 8 Subrisk Not Applicable		
Packing group	II		
Environmental hazard	Environmentally hazardous		
Special precautions for user	Special provisions 274 Limited quantity 1 L		

Air transport (ICAO-IATA / DGR)

UN number	1760			
UN proper shipping name	Corrosive liquid, n.o.s. *	Corrosive liquid, n.o.s. * (contains acrylic acid)		
Transport hazard class(es)	ICAO/IATA Class	8 Not Applicable		
	ERG Code	8L		
Packing group	II			
Environmental hazard	Environmentally hazardous			
	Special provisions		A3 A803	
	Cargo Only Packing Instructions		855	
Special precautions for user	Cargo Only Maximum Qty / Pack		30 L	
	Passenger and Cargo Packing Instructions		851	
	Passenger and Cargo Maximum Qty / Pack		1 L	
	Passenger and Cargo Limited Quantity Packing Instructions		Y840	
	Passenger and Cargo Limited Maximum Qty / Pack		0.5 L	

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UN number	1760	760		
UN proper shipping name	CORROSIVE LIQUI	CORROSIVE LIQUID, N.O.S. (contains acrylic acid)		
Transport hazard class(es)		8 Not Applicable		
Packing group	П	I		
Environmental hazard	Marine Pollutant	Marine Pollutant		
Special precautions for user	EMS Number Special provisions Limited Quantities			

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

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard		
HSR002658	Surface Coatings and Colourants (Corrosive) Group Standard 2017		
iso-bornyl acrylate is fou	ind on the following regulatory lists		
New Zealand Inventory of	Chemicals (NZIoC)		
2-hydroxyethyl methacry	rlate is found on the following regulatory lists		
	azardous Substances with controls Substances and New Organisms (HSNO) Act - Classification	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classificatio of Chemicals - Classification Data	
of Chemicals	· · · · ·	New Zealand Inventory of Chemicals (NZIoC)	
acrylic acid is found on t	he following regulatory lists		
Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC		New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data	
Monographs		New Zealand Inventory of Chemicals (NZIoC)	
New Zealand Approved Ha	azardous Substances with controls	New Zealand Workplace Exposure Standards (WES)	
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals		United Nations List of Prior Informed Consent Chemicals	
3-(trimethoxysilyl)propyl	methacrylate is found on the following regulatory lists		
New Zealand Approved Hazardous Substances with controls New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification		New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data	
of Chemicals		New Zealand Inventory of Chemicals (NZIoC)	
1-hydroxycyclohexyl phe	enyl ketone is found on the following regulatory lists		
New Zealand Approved Ha	azardous Substances with controls	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification	
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals		of Chemicals - Classification Data	
		New Zealand Inventory of Chemicals (NZIoC)	

Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantity (Closed Containers)	Quantity (Open Containers)
Not Applicable	Not Applicable	Not Applicable

Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
8.2A	Any quantity

Refer Group Standards for further information

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory	Status		
Australia - AIIC	es		
Australia - Non-Industrial Use	(iso-bornyl acrylate; 2-hydroxyethyl methacrylate; acrylic acid; 3-(trimethoxysilyl)propyl methacrylate; 1-hydroxycyclohexyl phenyl ketone)		
Canada - DSL	(es		
Canada - NDSL	No (iso-bornyl acrylate; 2-hydroxyethyl methacrylate; acrylic acid; 3-(trimethoxysilyl)propyl methacrylate; 1-hydroxycyclohexyl phenyl ketone)		
China - IECSC	Yes		

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National Inventory	Status
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 (iso-bornyl acrylate)
Vietnam - NCI	Yes
Russia - ARIPS	No (1-hydroxycyclohexyl phenyl ketone)
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	29/10/2020
Initial Date	29/10/2020

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

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