



# SAFETY DATA SHEET

## MAKSEAL HYBRID LM

Makrete Pty Ltd

Version No: 1.0

Issue Date:

Jun 2023

## SECTION 1 MATERIAL AND SUPPLY COMPANY IDENTIFICATION

### Product Identifier

Product Name	MAKSEAL HYBRID LM
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### Relevant identified uses of the substance or mixture and uses advised against

Relevant Identified uses	Bonding and Sealing
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### Details of the supplier of the safety data sheet

Registered Company Name	Makrete Pty Ltd
Address	PO Box 50, Montmorency, VIC 3094
Telephone	1300 911 161
Website	<a href="http://www.makrete.com.au">www.makrete.com.au</a>
Email	<a href="mailto:admin@makrete.com.au">admin@makrete.com.au</a>

### Emergency telephone number

Emergency Telephone Numbers	1300 911 161
Other emergency telephone numbers	13 11 26 (Poison Information Centre)

## SECTION 2 HAZARDS IDENTIFICATION

### Classification of the substance or mixture

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

Poisons Schedule	Not Applicable
Classification	Flammable Liquid Category 4, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Chronic Aquatic Hazard Category 3

### Label elements

Hazard pictogram(s)	
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SIGNAL WORD	<b>WARNING</b>
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### Hazard statement(s)

H227	Combustible Liquid.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

### Precautionary statement(s) Prevention

P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

### Precautionary statement(s) Response

P305+P351+P338	<b>IF IN EYES:</b> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370 + P378	In case of fire: Use alcohol resistant foam or normal protein foam for extinction.
P337 + P313	If eye irritation persists. Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P302 + P352	<b>IF ON SKIN:</b> Wash with plenty of soap and water.
P332 +P313	If skin irritation occurs: Get medical advice/attention.

### Precautionary statement(s) Storage

P403 + P235	Store in a well-ventilated place. Keep cool.
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### Precautionary statement(s) Disposal

P501	Dispose of contents/container in accordance with local regulations.
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## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### Substances

See section below for composition of Mixtures.

### Chemical Entity

CAS No	%[weight]	Name
13822-56-5	0 - 3 %	3-aminopropyltrimethoxysilane
2768-02-7	0 - 3 %	<u>trimethoxyvinylsilane</u>

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## SECTION 4 FIRST AID MEASURES

### Description of First Aid Measures

<b>Eye Contact</b>	<b>If this product meets the eyes:</b> 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. 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.
<b>Skin Contact</b>	<b>If skin contact occurs:</b> 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	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.
Ingestion	<b>If swallowed do NOT induce vomiting.</b> 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. Seek medical advice.

**Indication of any immediate medical attention and special treatment needed – Treat symptomatically.**

## SECTION 5 FIREFIGHTING MEASURES

### Extinguishing media

Foam

Dry chemical powder

BCF (where regulations permit)

Carbon dioxide

Water spray or fog – Large fires only

### Special hazards arising from the substrate or mixture

<b>Fire Incompatibility</b>	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
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### Advice for firefighters

<b>Fire Fighting</b>	Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. <b>DO NOT</b> 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.
<b>Fire Explosion Hazard</b>	Combustible. Slight fire hazard when exposed. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). May emit poisonous fumes. May emit corrosive fumes.
<b>HAZCHEM</b>	Not Applicable

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

See section 8

### Environmental precautions

See section 12

<b>Minor Spills</b>	<p>Clean up all spills immediately.            Avoid contact with skin and eyes.            Wear impervious gloves and safety goggles.            Trowel up/scrape up.            Place spilled material in clean, dry, sealed container.            Flush spill area with water.</p>
<b>Major Spills</b>	<p>Clear area of personnel and move upwind.            Alert Fire Brigade and tell them location and nature of hazard.            Wear breathing apparatus plus protective gloves.            Prevent, by any means available, spillage from entering drains or water course.            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.</p>

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

## SECTION 7 HANDLING AND STORAGE

### Precautions for safe handling

<b>Safe Handling</b>	<p>Avoid all personal contact, including inhalation.            Wear protective clothing when risk of exposure occurs.            Use in a well-ventilated area.            Prevent concentration in hollows and sumps.            DO NOT enter confined spaces until atmosphere has been checked.            DO NOT allow material to contact humans, exposed food or food utensils.            Avoid contact with incompatible materials.            When handling, do not eat, drink or smoke.            Keep containers securely sealed when not in use.            Avoid physical damage to containers.            Always wash hands with soap and water after handling.            Work clothes should be laundered separately. Launder contaminated clothing before re-use.            Use good occupational work practice.            Observe manufacturer's storage and handling recommendations contained within this SDS.            Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</p>
<b>Other information</b>	<p>Store in original containers.            Keep containers securely sealed.            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.</p>

Conditions for safe storage, including any incompatibilities.

<b>Suitable Container</b>	Metal can or drum. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
<b>Storage Incompatibility</b>	Avoid reaction with oxidising agents. Segregate from alcohol, water.

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### CONTROL PARAMETERS

### OCCUPATIONAL EXPOSURE LIMITS (OEL)

### INGREDIENT DATA


Not Available

### EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
3-aminopropyltrimethoxysilane	Trimethoxysilyl-1-propanamine, 3-(	30 mg/m3	330 mg/m3	2000 mg/m3
trimethoxyvinylsilane	Trimethoxyvinylsilane; (Vinyltrimethoxysilane;Silane, trimethoxyvinyl-)	9.5ppm	100 ppm	120 ppm

Ingredient	Original IDLH	Revised IDLH
3-aminopropyltrimethoxysilane	Not available	Not Available
trimethoxyvinylsilane	Not available	Not Available

### Exposure controls

<b>Appropriate Engineering Controls</b>	<p>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.</p> <p>The basic types of engineering controls are:</p> <p>Process controls which involve changing the way a job activity or process is done to reduce the risk.</p> <p>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 in use.</p> <p>Employers may need to use multiple types of controls to prevent employee overexposure.</p> <p>Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection.</p> <p>An approved self-contained breathing apparatus (SCBA) may be required in some situations.</p> <p>Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying "escape" velocities which in turn determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.</p>
<b>Personal Protection</b>	
<b>Eye and Face Protection</b>	<p>Safety glasses with side shields.</p> <p>Chemical goggles.</p> <p>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</p>

	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 worker have washed hands thoroughly.[CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
<b>Skin Protection</b>	See Hand protection below.
<b>Hands/Feet protection</b>	Wear chemical protective gloves. e.g. PVC Wear safety footwear or safety gumboots, e.g. Rubber
<b>Body protection</b>	See Other protection below.
<b>Other protection</b>	Protective overalls, closely fitted at neck and wrist. Eye-wash unit. <b>IN CONFINED SPACES:</b> Non-sparking protective boots Static-free clothing Ensure availability of lifeline Staff should be trained in all aspects of rescue work. Rescue gear: Two sets of SCBA breathing apparatus Rescue Harness, lines etc

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Appearance</b>	Grey powder with slight odour, mixes with water.		
<b>Physical state</b>	Solid	<b>Relative density (Water = 1)</b>	0.6 to 0.8
<b>Odour</b>	Not Available	<b>Partition coefficient n-octanol / water</b>	Not Available
<b>Odour Threshold</b>	Not Available	<b>Auto-ignition temperature (°C)</b>	Not Available
<b>pH (as supplied)</b>	Not Available	<b>Decomposition temperature</b>	Not Available
<b>Melting point / freezing point (°C)</b>	Not Available	<b>Viscosity (cSt)</b>	Not Available
<b>Initial boiling point and boiling range (°C)</b>	Not Available	<b>Molecular Weight (g/mol)</b>	Not Available
<b>Flash point (°C)</b>	Not Available	<b>Taste</b>	Not Available
<b>Evaporation rate</b>	Not Available	<b>Explosive properties</b>	Not Available
<b>Flammability</b>	Not Available	<b>Oxidising properties</b>	Not Available
<b>Upper Explosive Limit (%)</b>	Not Available	<b>Surface Tension (dyn/cm or mN/m)</b>	Not Available
<b>Lower Explosive Limit (%)</b>	Not Available	<b>Volatile Component (%vol)</b>	Negligible
<b>Solubility in water (g/L)</b>	Miscible	<b>pH as a solution (1%)</b>	9-10
<b>Vapour density (Air = 1)</b>	Negligible	<b>VOC g/L</b>	Not Available

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## SECTION 10 STABILITY AND REACTIVITY

<b>Reactivity</b>	See Section 7
<b>Chemical stability</b>	Product is considered stable and hazardous polymerisation will not occur.
<b>Possibility of hazardous reactions</b>	See Section 7
<b>Conditions to avoid</b>	See Section 7
<b>Incompatible materials</b>	See Section 7
<b>Hazardous decomposition products</b>	See Section 5

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## SECTION 11 TOXICOLOGICAL INFORMATION

### Information on toxicological effects

<b>Inhaled</b>	Generated dust may be discomforting.
<b>Ingestion</b>	Accidental ingestion of the material may be damaging to the health of the individual. Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.
<b>Skin Contact</b>	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition. Open cuts abraded or irritated skin should not be exposed to this material. Entry into the bloodstream, 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.
<b>Eye</b>	If applied to the eyes, this material causes severe eye damage.
<b>Chronic Toxicity</b>	Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Harmful: danger of serious damage to health by prolonged exposure through inhalation. This material has been classified as not mutagen. The material has been classified as not a carcinogen. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.

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## SECTION 12 ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients):>100mg/L

Long-term aquatic hazard: This material has been classified as non-hazardous. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data. Acute toxicity estimate (based on ingredients):>100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log Kow<4.

Ecotoxicity: No information available

Persistence and degradability: No information available  
Bio accumulative potential: No information available

Mobility: No information available

## SECTION 13 DISPOSAL CONSIDERATIONS

### Waste treatment methods

<b>Product / Packaging disposal</b>	<ul style="list-style-type: none"><li>• Recycle wherever possible or consult manufacturer for recycling options.</li><li>• Consult State Land Waste Management Authority for disposal.</li><li>• Bury residue in an authorised landfill.</li><li>• Recycle containers if possible or dispose of in an authorised landfill.</li></ul>
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## SECTION 14 TRANSPORT INFORMATION

### Labels Required

<b>Marine Pollutant</b>	No
<b>HAZCHEM</b>	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

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

Australia Hazardous Substances Information System – Consolidated Lists

Australia Inventory of Chemical Substances (AICS)

International Agency for Research on Cancer (IARC) – Agents classified by the IARC Monographs

International Air Transport Association (IATA) Dangerous Goods Regulations – Prohibited List Passenger and Cargo Aircraft

PORTLAND CEMENT (65997-15-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

<b>National Inventory</b>	<b>Status</b>
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (2-Napthalenesulfonic acid/Formaldehyde sodium salt)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (2-Napthalenesulfonic acid/Formaldehyde sodium salt)
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PIGGS	N (Portland Cement)
USA - TSCA	Y
<b>Legend:</b>	<i>Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing (see specific ingredients in brackets)</i>

## SECTION 16 OTHER INFORMATION

This Safety Data Sheet (SDS) summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since the company cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage review the SDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.