

# KGM-700

## Flexible Polymer Cementitious Membrane Safety Data Sheet



### SECTION 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

**Product Name:** KGM-700 Flexible Polymer Cementitious Membrane  
**Chemical Name:** Flexible Cementitious Membrane  
**Application:** Waterproofing membrane and protective coating  
**Supplier:** Krystol Group Pty Ltd  
ABN: 26 145 700 625  
Street Address: Unit 7, 60 Box Rd, Taren Point NSW 2229 Australia  
Telephone: +61 2 9524 6688  
**Emergency Contacts & Poisons Information Centre:**  
13 11 26 from anywhere in Australia, 0800 764 766 (New Zealand)

### SECTION 2. HAZARDS IDENTIFICATION

This material is classified as hazardous according to health criteria of Safe Work Australia.



#### Signal Word

Danger

#### Hazard Classification

Skin corrosion/irritation - Category 2  
Serious eye damage/irritation - Category 1  
Specific target organ toxicity (single exposure) - Category 3 respiratory tract irritation  
Specific target organ toxicity (repeat exposure) - Category 2

#### Hazard Statement(s)

H315 Causes skin irritation  
H318 Causes serious eye damage  
H335 May cause respiratory irritation  
H373 May cause damage to organs through prolonged or repeated exposure

## SECTION 2. HAZARDS IDENTIFICATION CONT'D

### Prevention Precautionary Statement(s)

P102	Keep out of reach of children
P103	Read label before use
P260	Do not breathe dust
P264	Wash face, hands and all exposed skin thoroughly after handling
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective clothing, gloves, eye/face protection and suitable dust mask as required

### Response Precautionary Statement(s)

P101	If medical advice is needed, have product container or label at hand
P302+352	IF ON SKIN: wash with soap and water
P362	Take off contaminated clothing and wash before reuse
P332+313	If skin irritation occurs: get medical advice/attention
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P312	Call a POISON CENTRE or doctor/physician if you feel unwell
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
P310	Immediately call a POISON CENTRE or doctor/physician.

### Storage Precautionary Statement(s)

P404+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up

### Disposal Precautionary Statement(s)

P501	Dispose of contents/container in accordance with regional and national regulations
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**Poison Schedule (Aust):** Not applicable

DANGEROUS GOOD CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

## SECTION 3. COMPOSITION INFORMATION

Chemical Name	CAS No	Proportion
Portland Cement	65997-15-1	30-60%
Sand, containing < 3% respirable crystalline silica	14808-60-7	30-60%
Calcium formate	544-17-2	< 1%
Ingredients determined to be non-hazardous		<u>Balance %</u>
		100%

## SECTION 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing is laboured and patient is cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a facemask. If breathing has stopped, apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice persist.

**Skin Contact:** If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital.

**Eye contact:** Immediately irrigate with copious quantities of water for 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre.

**Ingestion:** Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs, give further water. Get to a doctor or hospital quickly.

**PPE for First Aiders:** Wear safety shoes, overalls, impervious gloves, chemical goggles. Avoid generating and inhaling dusts. If dust exists, wear dust mask/respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Notes to physician:** Treat symptomatically. Can cause corneal burns.

## SECTION 5. FIRE FIGHTING MEASURES

**Hazchem Code:** Not applicable.

**Suitable extinguishing media:** Not combustible, however, if material is involved in a fire, use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Non-combustible material.

**Fire fighting further advice:** On decomposing, may emit toxic fumes. Fire-fighters to wear self-contained breathing apparatus and suitable protective clothing if there is risk of exposure to products of decomposition.

## SECTION 6. ACCIDENTAL RELEASE (SPILL OR LEAK) PROCEDURES

### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Wipe up with absorbent material (clean rag or paper towels). Allow absorbent material to dry before disposing with normal household garbage.

### LARGE SPILLS

Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Wear protective equipment to prevent skin and eye contamination and the inhalation of dust. Work up wind or increase ventilation. Cover with damp absorbent (soil, sand or other inert material). Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred, advise local emergency services.

**Dangerous Goods – Initial Emergency Response Guide No:** Not applicable

## SECTION 7. HANDLING AND STORAGE

**Handling:** Avoid skin and eye contact and inhalation of dust.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks or spills.

## SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia or Dept of Labour New Zealand.

However for:

	TWA		STEL		CARCINOGEN CATEGORY	NOTICES
	ppm	mg/m3	ppm	mg/m3		
Portland cement	-	10	-	-	-	-
Silica - crystalline, respirable	-	0.1	-	-	-	-

As published by the Safe Work Australia or Department of Labour New Zealand.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15-minute period, which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

**Biological Limit Values:** As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)", the ingredients in this material do not have a Biological Limit Allocated.

**Engineering measures:** ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Avoid generating and inhaling dusts. Use with local exhaust ventilation or while wearing dust mask. Keep containers closed while not in use.

**Personal Protection Equipment:** SAFETY SHOES, OVERALLS, GLOVES, SAFETY GLASSES, DUST MASK. Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.

Wear safety shoes, overalls, impervious gloves, chemical goggles. Avoid generating and inhaling dusts. If dust exists, wear dust mask/respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Hygiene measures:** When using, do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye and skin contact and inhalation of dust. Ensure that eyewash stations and safety showers and close to the workstation location.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Base Units:</b>	Kilograms (kg)	<b>Solubility in water:</b>	Insoluble
<b>Form:</b>	Powder	<b>Specific Gravity (20 °C):</b>	1.0 - 2.0
<b>Colour:</b>	Grey	<b>Relative Vapour Density (air=1):</b>	> 1
<b>Odour:</b>	Cementitious odour	<b>Vapour Pressure (20 °C):</b>	N Av
<b>Volatile by Volume (%):</b>	N App	<b>Flash Point (°C):</b>	N App
<b>Autoignition Temperature (°C):</b>	N App	<b>Melting Point/Range (°C):</b>	N Av
<b>pH:</b>	N Av	<b>Boiling Point/Range (°C):</b>	N Av
<b>Decomposition Point (°C):</b>	N Av	<b>Total VOC (g/Litre):</b>	N Av
<b>Viscosity:</b>	N Av	<b>Flammability Limits (%):</b>	N App

(Typical values only - consult specification sheet)

N Av = Not available, N App = Not applicable

## SECTION 10. STABILITY AND REACTIVITY

**Reactivity:** No reactivity hazards are known for the material.

**Chemical stability:** This material is thermally stable when stored and used as directed.

**Conditions to avoid:** Keep free of moisture

**Incompatible materials:** Oxidising agents, water and acids. Cement is highly alkaline.

**Hazardous decomposition products:** Oxides of carbon and nitrogen, smoke and other toxic fumes.

**Hazardous reactions:** No known hazardous reactions

## SECTION 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** Material may be an irritant to mucous membranes and respiratory tract.

**Skin contact:** Contact with skin may result in irritation. May cause skin sensitisation in sensitive individuals.

**Ingestion:** Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

**Eye contact:** May be an eye irritant. Corrosive to eyes: contact can cause corneal burns. Contamination of eyes can result in permanent injury.

### Acute toxicity

**Inhalation:** This material has been classified as non-hazardous.

Acute toxicity estimate (based on ingredients): > 20.0 mg/L

**Skin contact:** This material has been classified as non-hazardous.

Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Ingestion:** This material has been classified as non-hazardous.

Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Corrosion/Irritancy:** Eye: this material has been classified as a Category 1 Hazard (irreversible effects to eyes).

Skin: this material has been classified as a Category 2 Hazard (irritant to skin).

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser.

Skin: this material has been classified as not a skin sensitiser.

**Aspiration hazard:** this material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):** This material has been classified as a Category 3 Hazard. Exposure via inhalation may result in respiratory irritation.

### Chronic Toxicity

**Mutagenicity:** This material has been classified as non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):** This material has been classified as a Category 2 Hazard. Exposure via inhalation may result in effects on the lungs.

## SECTION 11. TOXICOLOGICAL INFORMATION CONT'D

Occupational exposure to high levels of respirable crystalline ( $\leq 6\mu\text{M}$ ) for an extended period of time ie. greater than 20 years can cause the chronic lung condition silicosis. This has been found in conditions where quartz has been cut, drilled or sanded generating high levels of dust, specifically in quarrying, drilling and foundry workers. A small subset of works in these industries, in retrospective epidemiological studies have shown an increased risk of developing lung cancer.

The International Agency for Research on Cancer (IARC) have classified respirable crystalline silica as a Group 1 human carcinogen. Lung cancer risk has been directly associated with the development of silicosis. Work practices preventing the development of silicosis will prevent lung cancer risk.

## SECTION 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** No information is available to complete an assessment

**Long-term aquatic hazard:** No information is available to complete an assessment

**Ecotoxicity:** No information available.

**Persistence and degradability:** No information available.

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

## SECTION 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible, material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

## SECTION 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

### MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

### AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

## SECTION 15. REGULATORY INFORMATION

**This material is not subject to the following international agreements:**

- Montreal Protocol (Ozone depleting substances)
- The Stockholm Convention (Persistent Organic Pollutants)
- The Rotterdam Convention (Prior Informed Consent)
- Basel Convention (Hazardous Waste)
- International Convention for the Prevention of Pollution from Ships (MARPOL)

**This material/constituent(s) is covered by the following requirements:**

- All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

## SECTION 16. OTHER INFORMATION

Reason for issue: First issue

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

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

Safety Data Sheets are updated frequently. Please ensure you have a current copy.

END OF DATA SHEET