



**SAFETY DATA SHEET
QUICSEAL 109
SELF-ADHESIVE WATERPROOFING MEMBRANE**

1. INFORMATION OF THE SUBSTANCE/COMPOUND AND THE SUPPLIER

Product Name: QUICSEAL 109 – Self-Adhesive Waterproofing Membrane
Product Use: Cold-applied, self-adhesive, pre-formed waterproofing membrane

Details of the supplier:

*QUICSEAL CONSTRUCTION CHEMICALS PTE LTD
No. 7 Eunos Avenue 8A
Eunos Industrial Estate
Singapore 409460*

Emergency Contact No.: (65) 6742 4466

2. HAZARDS IDENTIFICATION

GHS Classification

This product is not classified as hazardous according to GHS criteria.

GHS Label Elements and Precautionary Statements

This product does not require a hazard warning label in accordance with GHS criteria.

Other hazards which do not result in classification

No specific dangers known, if the regulation/notes for storage and handling are considered.
No chronic hazard is expected when good industrial and personal hygiene is practiced.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterization/Description

Rubberized bitumen membrane protected with high-density, cross-laminated polyethylene film

Components

This product does not contain hazardous components according to the GHS Classification of Chemicals.

4. FIRST-AID MEASURES

Eye Contact

In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 minutes. Hold eyelids open to ensure adequate flushing. Seek medical attention.

Skin Contact

Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water or with waterless hand cleanser. Obtain medical attention if irritation or redness develops.

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Inhalation

Remove person to fresh air. If person is not breathing, provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

Ingestion

DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

5. FIRE-FIGHTING MEASURES**General Fire Hazards**

The product is non-flammable (water-borne system). If material is involved in fire, do not breathe fumes.

Suitable Fire-extinguishing Media

Use the appropriate fire extinguishing media for surrounding fire (water, foam, dry powder, CO₂)

Further information

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES**Personal Precautions and Protective equipment**

Avoid contact with skin and eyes; Use protective clothing (gloves, goggles) and safety equipment.

Environmental Precautions

Do not release untreated material into water sources. Dried material is environment-friendly.

Methods and materials for containment and cleaning up

For small amounts: Absorb spillage with absorbent materials such as sand, sawdust, paper, general-purpose binder, kieselguhr). Allow to dry before disposing material in accordance with regulations.

For large amounts: Pump off product.

For residues: Rinse away with water.

7. HANDLING AND STORAGE**Handling**

Handle in accordance to good industrial hygiene and safety practices (i.e. gloves, goggles, and safety equipment should be used when handling chemicals; do not eat, drink, smoke when handling product). Wash hand thoroughly before eating and drinking. Any accidental contact with the product must be washed with clean water.

Storage

Store product protected from freezing and away from direct sunlight.

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed.

Hand protection:

Suitable chemical resistant gloves (EN 374) also with prolonged, direct contact
Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm).
Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Eye protection:

Safety goggles with side shield (frame goggles) (e.g. EN 166)

General safety and hygiene measures:

Hands and/or face should be washed before breaks and at the end of the shift. Avoid contact with skin and eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Appearance:	Milky white liquid
Flash Point:	Not flammable (water-borne system)
Boiling Point:	100°C
Melting Point:	Not Applicable
Oxidising Properties:	Not Applicable
Flammability Limits:	None allocated
Water Solubility:	Soluble in water
Solid Content:	approx. 50%
Specific Gravity:	Approx. 1.01

10. STABILITY AND REACTIVITY

Stability

The product is stable in normal conditions of use and storage. However, avoid extreme temperatures which can cause polymer decomposition.

Possibility of hazardous reactions

No hazardous reactions are foreseeable under normal conditions of use and storage.

Incompatible materials

No substances known that should be avoided.

Hazardous decomposition products

No hazardous decomposition products are expected if stored and handled as prescribed/indicated.

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11. TOXICOLOGICAL INFORMATION

This product has not been tested and all the toxicological statements have been derived from the respective components' available toxicity information.

Acute toxicity

Experimental/calculated data:

LD50, oral: > 5,000 mg/kg (the product is not classified as orally toxic)

LD50, dermal: > 5,000 mg/kg (the product is not classified as dermally toxic)

LC50, inhalation: > 20 mg/L (the product is classified as non-toxic if inhaled)

Irritation / corrosion

The product is not irritating to the eyes or skin. If the product adheres to skin, irritation may occur when it dries.

Experimental/calculated data:

Skin: Species: rabbit / Result: non-irritant / Method: OECD Guideline 404

Eye: Species: rabbit / Result: non-irritant / Method: OECD Guideline 405

Respiratory / Skin sensitization

The product is not expected to cause respiratory or skin sensitization.

Germ cell mutagenicity / Carcinogenicity / Reproductive toxicity / Developmental toxicity

Based on the assessment of available information, the product is: not mutagenic in bacteria; has no known carcinogenic effect; and not expected to cause reproductive and developmental toxicity.

Specific target organ toxicity (single and repeated exposure)

Based on the available information, there is no specific target organ toxicity expected after a single or repeated exposure to the product.

Other Information:

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

12. ECOLOGICAL INFORMATION

The following ecological assessment is based on the available ecotoxicity information of the product's components.

Ecotoxicity

This product is not expected to be toxic to aquatic life based on the toxicity values to the following aquatic organisms:

Fish: LC50 (96h) > 100 mg/l, *Brachydanio rerio* (OECD Guideline 203, static)

Aquatic invertebrates: EC50 (48h) > 100 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants: LC50 (72h) > 100 mg/l, *Scenedesmus subspicatus* (OECD Guideline 201)

Persistence and degradability

Elimination information: >70% DOC reduction (OECD 302B; ISO 9888; 88/302/EEC, part C)

Easily eliminated from water.

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Bioaccumulation potential

Based on structural properties, the polymer component is not biologically available. Accumulation in organisms is not expected.

Additional information

Do not release product untreated into natural waters. At the present knowledge of the product, no negative ecological effects are expected.

13. DISPOSAL CONSIDERATIONS**Disposal of container**

Allow liquid to dry in the container. Peel-off dried material and dispose. The container may be used for other function after thorough washing.

Disposal of material

Dried material can be disposed off in authorized landfill site in accordance to national regulations.

14. TRANSPORT INFORMATION

This product is classified as NON-HAZARDOUS under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

15. REGULATORY INFORMATION**Labelling requirements according to EEC Directives**

This product is not subject to labeling in accordance with EEC Directives.

Handle in accordance with good industrial hygiene and safety practice.

National legislation/regulations

According to the data available to us, the product is not hazardous under the relevant Singapore Legislation.

16. OTHER INFORMATION

The information and data contained herein are believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since QUICSEAL Construction Chemicals Pte. Ltd. cannot know all of the uses to which its products may be put or the conditions of use; it makes no warranties concerning the fitness or suitability of its products for a particular use of purpose.

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