
SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

COMMERCIAL PRODUCT NAME	: CEMSEAL FLEX (Part B)
SUBSTANCE	: Liquid component of 2-part highly flexible cementitious waterproofing system
COMPANY/UNDERTAKING	: CEMSEAL INDUSTRIES SDN BHD No. 10, Jalan Emas 29, Taman Sri Putri, 81300 Skudai. Johor. Malaysia.
TELEPHONE NO	: +607-558 3320
EMAIL	: info@cemseal.com.my

SECTION 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. Take note of the resulting hazards of this product when mixed with the powder component (see SDS of CEMSEAL FLEX (PART A)).

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization/Description	: Water-based polymer dispersion / mixture
Components	: This product does not contain hazardous components in concentrations higher than the concentration limit according to the GHS Classification of Chemicals.

SECTION 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.
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.

SECTION 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.

SECTION 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.

SECTION 7 : HANDLING AND STORAGE

Handling

Precautions for safe 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

Conditions for safe storage, including any incompatibilities : Store product protected from freezing and away from direct sunlight.

SECTION 8 : EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control Parameters / Occupational Exposure Limits

This product does not contain components which have relevant occupational exposure limits.

Appropriate Engineering Measures

There are no relevant exposure control measures necessary for this product.

Personal Protective Equipment (PPE)

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

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

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).

SECTION 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. 52%

Viscosity : 0.8 - 2.5 dPa-s

Specific Gravity : Approx. 1.03

SECTION 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.

SECTION 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 toxic/harmful if swallowed.)

LD50, dermal: > 5,000 mg/kg (the product is not toxic/harmful in contact with skin)

LC50, inhalation: > 20 mg/L (the product is not toxic/harmful if inhaled)

Skin and Eye Corrosion / Irritation

This product is not expected to cause skin or eye irritation.

Respiratory / Skin Sensitization

The product is not expected to cause allergic skin reactions or respiratory 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.

Carcinogenicity

The product contains minute amounts of respirable crystalline silica which is classified as a Group 1 carcinogen by the International Agency for Research on Cancer (IARC). While the respirable crystalline silica content of the product (<0.1%) is insufficient for GHS classification, long-term exposure to significantly large amounts may result in lung fibrosis (silicosis).

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.

SECTION 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) > 200 mg/l, Brachydanio rerio (OECD Guideline 203, static)

Aquatic invertebrates: EC50 (48h) > 200 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

Aquatic plants: LC50 (72h) > 200 mg/l, Scenedesmus subspicatus (OECD Guideline 201)

Additional information

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

SECTION 13 : DISPOSAL CONSIDERATION

Disposal of Material

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

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.

SECTION 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.

SECTION 15 : REGULATORY INFORMATION

Labelling requirements according to EEC Directives

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

National legislation/regulations

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

SECTION 16 : OTHER REGULATION

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The information is based on our current level of knowledge and relates to the products in the states in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.
