

**Cemseal ACH****SECTION 1 : IDENTIFICATION OF THE CHEMICAL AND OF THE SUPPLIER**

|                         |  |
|-------------------------|--|
| Commercial Product Name | : Cemseal ACH  |
| Recommended Use         | : Waterproofing Coating  |
| Company/Undertaking     | : Cemseal Industries Sdn. Bhd.   |
| Address                 | : No.10, Jalan Emas 29, Taman Sri<br>Putri, 81300 Skudai, Johor, Malaysia. |
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**SECTION 2 : HAZARDS IDENTIFICATION****GHS Classification:**Physical Hazard

Not classified as a physical hazard under GHS criteria

Health Hazard

Skin sensitization                      Category 1

Environment Hazard

Not classified as an environmental hazard under GHS criteria

GHS PictogramSignal Word

Warning

Hazard statements

H317: May cause an allergic skin reaction

Precautionary statements

P261: Avoid breathing dust/fume/gas/mist/vapours/spray

P272: Contaminated work clothing should not be allowed out of the workplace

P280: Wear protective gloves/protective clothing/eye protection/face protection

Response

P321: Specific treatment (see Section 4 of SDS)

P363: Wash contaminated clothing before reuse

P302+352: IF ON SKIN: Wash with soap and water

P333+313: If skin irritation or a rash occurs: Get medical advice/attention

Storage

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Disposal

P501: Dispose of content/container to appropriate waste site or reclaimer in accordance with local or national regulations.

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### SECTION 3 : COMPOSITION AND INFORMATION OF THE INGREDIENTS

| Ingredient  | CAS No.     | %         |
|---|-------------|-----------|
| Mixture of 5 chloro-2 methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one | 55965-84-9  | > 0.0015% |
| Titanium Dioxide  | 13463-67-7  | <10%      |
| Polymer Blends  | Proprietary | >35%      |
| Demin water   | 773185      | <25%      |
| Filler Blends   | Proprietary | >30%      |

### SECTION 4 : FIRST AID MEASURES

#### INHALATION

- Move person to fresh air and call for medical assistance immediately.
- If not breathing, give artificial respiration, if breathing is difficult, give oxygen. Keep at rest.

#### SKIN CONTACT

- In case of contact, immediately flush skin with large amounts of water and soap while removing contaminated clothing and shoes.
- If irritation persists, get medical attention.

#### EYE CONTACT

- Immediately flush eyes with large amounts of water until irritation subsides.
- Remove contact lens
- Obtain medical attention, preferably by an ophthalmologist, immediately.

#### INGESTION

- DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Keep at rest. Get medical attention immediately.

### SECTION 5 : FIRE-FIGHTING MEASURES

#### SUITABLE FIRE EXTINGUISHING MEDIA

- Alcohol-resistant foam, Carbon dioxide, or dry chemical type

#### SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

- Combustion products may include and are not limited to: Carbon monoxide and Carbon dioxide.

#### SPECIAL PROTECTIVE ACTIONS FOR FIRE FIGHTERS

- Wear full protective clothing and NIOSH-approved self-contained breathing apparatus.
- Use water spray to cool fire-exposed surfaces and to protect personnel. If a leak or spill has not ignited, use water spray to disperse the vapours.

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- If possible, isolate product from heat, electrical equipment, sparks and open flames.
  - Avoid spraying water directly into storage containers.
  - Closed containers may explode when exposed to extreme heat.
  - Avoid spreading burning liquid with water, isolate liquid.
  - Do not allow run-off from firefighting to enter drains or watercourses.
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### **SECTION 6 : ACCIDENTAL RELEASES MEASURES**

#### **PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE**

- Wear appropriate protective equipment, e.g., respirators, eye protection, gloves and safety shoes.
- Avoid substance contact with eyes. Do not inhale vapours.
- Ensure supply of fresh air in enclosed rooms.

#### **ENVIRONMENTAL PRECAUTIONS**

- Eliminate sources of ignition.
- Keep public away.
- Contain spilled liquid with sand or other non-combustible absorbent materials
- Wash area and prevent runoff into drains and sewerage system.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.

#### **METHODS AND MATERIALS FOR CONTAINMENTS AND CLEANING UP**

- Clean up all spills immediately.
  - Absorb spill with absorbent and inert material, then place in container.
  - Disposal in accordance to local/national regulations.
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### **SECTION 7 : HANDLING AND STORAGE**

#### **PRECAUTIONS FOR SAFE HANDLING**

- Use appropriate personal protective equipment
- Keep out of reach of children.
- Handle containers with care. Open slowly in order to control possible pressure release.
- Do not pressurize containers.
- Do not ingest. Do not breathe in gas/fumes/vapour. Avoid contact with skin and eyes.
- For personal protection, see section 8.
- Use only in areas from which all naked lights and other sources of ignition have been excluded.
- Take precautionary measures against static discharge
- Protect from frost and extremes of temperature.

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**CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

- Keep containers tightly closed.
- Containers that are opened should be properly resealed and kept upright to prevent leakage.
- Store in cool, dry and well-ventilated place at temperature between 20oC to 40oC away from heat and sources of ignition.

**SECTION 8 : EXPOSURE CONTROLS PERSONAL PROTECTION**

**CONTROL PARAMETERS/OCCUPATIONAL LIMITS**

| Ingredient  | ACGIH TLV-TWA |                   | OSHA PEL-TWA |                   |
|---|---------------|-------------------|--------------|-------------------|
|   | ppm           | Mg/m <sup>3</sup> | ppm          | Mg/m <sup>3</sup> |
| Mixture of 5 chloro-2 methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one | -             | -                 | -            | -                 |
| Titanium Dioxide  | -             | -                 | -            | 15                |
| Polymer Blends  | -             | -                 | -            | -                 |
| Demin water   | -             | -                 | -            | -                 |
| Filler Blends   | -             | -                 | -            | -                 |

**APPROPRIATE ENGINEERING CONTROL MEASURES**

- Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.
- Ensure eyewash stations and safety showers are close to the workstation location.

**PERSONAL PROTECTION**

***Respiratory Protection:***

Use of SS548 or NIOSH-approved respirators with organic vapour cartridges is recommended

***Hand Protection:***

Use of solvent resistance type or chemical resistant type of protective gloves is recommended.

***Eye Protection:***

Use of SS473(Part 2) approved safety glasses or goggles with side shields is recommended.

***Skin / Body Protection:***

Wear chemical resistant clothes and SS 513 (Part 1) approved safety shoes when handling product.

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### SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

|   |   |                                  |
|---|---|----------------------------------|
| Appearance                              | : | Coloured viscous liquid          |
| Odour                                   | : | Slight odour                     |
| Odour threshold                         | : | Not available                    |
| pH                                      | : | 9-10                             |
| Melting point/freezing point            | : | Not available                    |
| Initial boiling point and boiling range | : | Not available                    |
| Flash point                             | : | Not applicable                   |
| Evaporation rate                        | : | Not available                    |
| Flammability (solid, gas)               | : | Not applicable                   |
| Lower flammability or explosive limit   | : | Not available                    |
| Upper flammability or explosive limit   | : | Not available                    |
| Vapour pressure                         | : | 25 [mbar @ 200C]                 |
| Vapour density                          | : | Not available                    |
| Relative density                        | : | 1.30- 1.40                       |
| Solubility                              | : | Soluble in water                 |
| Partition coefficient                   | : | Not available                    |
| Auto-ignition temperature               | : | Not available                    |
| Decomposition temperature               | : | Not available                    |
| Viscosity                               | : | 10000 – 20000 [250C, mPa.s(cps)] |

### SECTION 10 : STABILITY AND REACTIVITY

#### REACTIVITY

- No dangerous reaction known under condition of normal use.

#### CHEMICAL STABILITY

- The product is stable under recommended storage and handling conditions. (See section 7)

#### POSSIBILITY OF HAZARDOUS REACTION

- Under normal conditions of storage and use, hazardous reaction will not occur.
- Containers may explode when heated

#### CONDITIONS TO AVOID

- Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, drill, grind or expose containers to heat or sources of ignition.

#### HAZARDOUS DECOMPOSITION PRODUCTS

- When exposed to high temperatures may produce hazardous decomposition products such as irritative, toxic and corrosive gases

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### SECTION 11 : TOXICOLOGICAL INFORMATION

There is no data available on the product itself.

Toxicological information of ingredients:

#### **Acute Oral toxicity**

Harmful if swallowed. Expected oral LD50, rat > 2000 mg/Kg PROOF

#### **Acute dermal/skin toxicity**

May be harmful if in contact with skin

#### **Dermal LD50 (Rabbit), mg/kg**

|   |                    |
|---|--------------------|
| Mixture of 5 chloro-2 methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one | Data not Available |
| Titanium Dioxide  | 10,000             |
| Polymer Blends  | Data not Available |
| Demin water   | Data not Available |
| Filler Blends   | Data not Available |

#### **Acute inhalation toxicity**

Vapour concentrations above the recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headaches and dizziness, could be anesthetic and may have other central nervous system effects.

#### **Inhalation Vapor (Rat) LC50, mg/L/4hr**

|   |                    |
|---|--------------------|
| Mixture of 5 chloro-2 methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one | Data not Available |
| Titanium Dioxide  | Data not Available |
| Polymer Blends  | Data not Available |
| Demin water   | Data not Available |
| Filler Blends   | Data not Available |

#### **Skin corrosion or irritation**

Causes skin irritation. Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.

#### **Serious eye damage or irritation**

May be an eye irritant.

#### **Respiratory or skin sensitization**

Vapour concentrations above the recommended exposure levels may be irritating to the eyes and the respiratory tract,

#### **Germ cell mutagenicity**

No information available on the product.

#### **Carcinogenicity**

Titanium Dioxide

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The International Agency for Research on Cancer (IARC) has classified Titanium Dioxide as possibly carcinogenic to humans (Group 2B) based on inadequate evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals

**Reproductive toxicity**

No information available on the product.

**Specific Target Organ Toxicity (STOT)- single exposure**

No information available on the product.

**Specific Target Organ Toxicity (STOT)- repeated exposure**

No information available on the product.

**Aspiration hazard**

No information available on the product.

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**SECTION 12 : ECOLOGICAL INFORMATION*****Toxicity***

Aquatic toxicity -No data available

***Persistence and degradability***

Biodegradation -No data available

***Bioaccumulative potential***

-No data available

***Mobility in soil***

-No data available

***Result of PBT and vPvB assessment***

-No data available

***Other adverse effects***

There is no ecotoxicological test data available on the product itself.  
The product should not be allowed to enter drains or water courses

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**SECTION 13 : DISPOSAL CONSIDERATIONS**

The product should not be allowed to enter drains and watercourses.

Preferred methods of waste disposal are incineration or biological treatment in federal/state approved facility. Empty containers should be recycled or disposed through an approved waste management facility or licensed contractor.

All federal, state and local environmental regulations shall be observed.

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**SECTION 14 : TRANSPORTATION INFORMATION**

Transport to be in accordance with ADR/RID for road, IMDG for sea and IATA for Air.

***LAND TRANSPORT***

Not classified as Dangerous Goods by the criteria of the European Agreement concerning the international carriage of Dangerous Goods (ADR) by Road & Regulations concerning the international carriage of Dangerous goods (RID) by Rail.

***SEA TRANSPORT***

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

***SEA (Annex II of MARPOL 73/78 and the IBC code)***

Not applicable

***AIR TRANSPORT***

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

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**SECTION 15 : REGULATORY INFORMATION*****Applicable national regulations:***

- Standards on Hazard communication for hazardous chemicals and dangerous goods
  - SS 586: Part 1: 2021- Transport and storage of dangerous goods
  - SS 586: Part 2: 2014- GHS of classification and labelling of chemicals- Singapore's adaptations
  - SS 586: Part 3: 2008- Preparation of safety data sheets (SDS)
- MOM: Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations
  - This product is subject to SDS, labelling, PEL and other requirements in the Acts/Regulations
- NEA: Environmental Protection and Management Act & Environmental Protection and Management (Hazardous Substances) Regulations.
  - This product is not subject to control under this Acts/Regulations
- SCDF: Fire Safety Act & Fire Safety (Petroleum and Flammable Materials) Regulations
  - This product is not subject to the requirement of this Acts/Regulations
- SPF: The Arms and Explosive Act, the Arms and Explosives (Explosives) Rules, and the Arms and Explosives (Explosive Precursors) Rules
  - This product is not subject to the requirement of this Acts/Regulations

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### SECTION 16 : OTHER INFORMATION

- A. Issuing date: JULY 3, 2025
- B. Version: ACH-250703
- C. Other Information

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility in observing existing laws and regulations.

THE INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. SUCH INFORMATION IS TO THE BEST OF CEMSEAL KNOWLEDGE AND BELIEF, ACCURATE AND RELIABLE AS FOR THE DATE INDICATED. HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO ITS ACCURACY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY AND COMPLETENESS OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE.