Safety Data Sheet
Cloudlime®
Date of issue: 6 September 2026

SECTION 1: IDENTIFICATION

Product Identification

Product Name: Cloudlime
Product Type: Aqueous mineral paint

Recommend use and restrictions on use

Recommended use: Professional and decorative architectural lime finish, interior/exterior mineral coating.
Uses Advised Against: Any use other than recommended architectural application without prior technical consultation.

Supplier Details

Manufacturer: Aftertouch Works Pte Ltd
Address: 48 Hillview Terrace #04-08 669269 Singapore
hello@aftertouchworks.com.sg
Emergency Telephone Number
T: +65 92964453 (Mon-Fri 8am to 5pm)

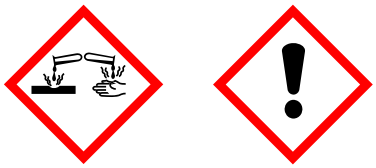
SECTION 2: HAZARDS IDENTIFICATION

GHS Classification

Skin Corrosion / Irritation	— Category 2
Serious Eye Damage / Eye Irritation	— Category 1

GHS label elements including precautionary statements

Pictograms:



Signal Word: Danger

Hazard Statements:

H315: Causes skin irritation.
H318: Causes serious eye damage.

Precautionary Statements:

P102:	Keep out of reach of children.
P264:	Wash hands and exposed skin thoroughly after handling.
P280:	Wear protective gloves, eye protection, and face protection.
P302 + P352:	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362:	Take off contaminated clothing
P332 + P313:	If skin irritation occurs: Get medical advice/attention.

Other Hazards which do not result in classification:
Prolonged or repeated contact may dry the skin. High alkalinity means wet product is caustic to eyes and mucous membranes.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Mixture Description: Aqueous mineral suspension containing calcium hydroxide, natural clays, and mineral setting additives.

Chemical Name	Identification Number	Proportion (Weight % / Batch Ratio)	GHS Classification
Calcium Hydroxide	CAS: 1305-62-0 EC: 215-137-3	20 – 40%	Skin Irrit. 2, Eye Dam. 1
Kaolin Clay	CAS: 1332-58-7 EC: 310-194-1	1 – 10 %	Not classified

SECTION 4: FIRST-AID MEASURES

Description of First-Aid Measures

Eye Contact: Immediately flush eyes gently with running water for at least 15 minutes, lifting upper and lower eyelids. Remove contact lenses if present. Consult an ophthalmologist immediately.

Skin Contact: Remove contaminated clothing and shoes. Wash affected skin thoroughly with plenty of soap and water. If irritation or rash persists, seek medical attention.

Inhalation: Move victim to fresh air. Keep warm and at rest

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water and seek immediate medical advice.

Most Important Symptoms and Effects, Both Acute and Delayed

Causes severe eye irritation and risk of serious eye damage. Causes skin irritation upon prolonged contact.

Indication of immediate medical attention and special treatment needed, if necessary

In case of accident or unwellness, seek medical advice immediately

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Product itself does not burn. Co-ordinate fire-fighting measures to the surroundings

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide (CO_2) appropriate for the surrounding fire.

Unsuitable Extinguishing Media: None known.

Special Hazards Arising from the Substance or Mixture

Combustibility: The product is water-based and non-combustible. It does not present a fire or explosion hazard in its wet paste, liquid, or dried-film states.

Thermal Decomposition: Under extreme heat or fire conditions, the mineral components can thermally decompose to release calcium oxides and other irritating or caustic fumes.

Alkaline Runoff: Water used for firefighting can mix with the product to form a highly alkaline (caustic) solution. Uncontained runoff can alter environmental pH and may pose acute risks to aquatic life if allowed to enter drains or waterways.

Container Integrity: Sealed containers exposed to intense radiant heat or direct fire may experience internal pressure build-up, creating a risk of container rupture or bulging.

Special protective actions for fire-fighters

Protective Equipment:	Wear standard full fire-fighting gear including self-contained breathing apparatus (SCBA) operating in positive-pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipment (rubber gloves, safety goggles, protective clothing). Avoid direct contact with eyes and skin. Ensure adequate ventilation.

Environmental Precautions

Prevent large quantities from entering public drains, sewers, surface waters, or soil to avoid localized high pH spikes.

Methods and Material for Containment and Cleaning Up

Cleanup Procedure: Soak up or scrape spilled paste using inert absorbent material (such as sand or earth. Shovel waste material into appropriate labelled containers for disposal. Wash down remaining residue thoroughly with water.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Handling Practices:	Avoid contact with skin and eyes. Do not breathe wet mist or spray. Eating, drinking, and smoking should be prohibited in areas where this material is handled and stored. Wash hands thoroughly after use.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions:	Store in original tightly sealed containers in a cool, dry, well-ventilated area. Protect containers from extreme temperatures and direct sunlight. Keep container closed when not in use.
Incompatible Materials:	Strong acids, reactive metals (e.g., aluminum), and strong oxidizing agents.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters / Occupational Exposure Limits:

Calcium hydroxide (CAS 1305-62-0)

OSHA	PEL-TWA	15mg/m3 (total dust)
OSHA	PEL-TWA	5mg/m3 (respirable fraction)
ACGIH	TLV-TWA	5mg/m3
NIOSH	REL-TWA	5mg/m3
Singapore	PEL	5mg/m3

Predicted No Effect Concentration (PNEC) Value

Calcium hydroxide (CAS 1305-62-0)

Freshwater:	0.49mg/L
Seawater:	0.32mg/L
Intermittent Release:	0.49mg/L
Sewage Treatment Plant (STP):	3mg/L
Soil (Agricultural):	1080mg/kg soil dry weight

Derived No-Effect Levels (DNEL)

	Workers			
Exhibition Route	Local acute effects	Acute systemic effects	Local chronic effects	Chronic systemic effects
Oral	Not required			
Inhalation	4 mg/m³ (Respirable dust)	No hazard identified	1 mg/m³ (Respirable dust)	No hazard identified
Dermal	Hazard identified, but DNEL not available	Hazard identified, but DNEL not available	Hazard identified, but DNEL not available	Hazard identified, but DNEL not available

	Consumers			
Exhibition Route	Local acute effects	Acute systemic effects	Local chronic effects	Chronic systemic effects
Oral	No exhibition is expected	No hazard identified	No exhibition is expected	No hazard identified
Inhalation	4 mg/m³ (Respirable dust)	No hazard identified	1 mg/m³ (Respirable dust)	No hazard identified
Dermal	Hazard identified, but DNEL not available	Hazard identified, but DNEL not available	Hazard identified, but DNEL not available	Hazard identified, but DNEL not available

Appropriate Engineering Control Measure

For general application by brush or roller, ensure adequate ventilation. Natural ventilation is normally sufficient for indoor/outdoor application

Individual protection measures, such as personal protective equipment (PPE)

Eye/Face Protection:	Safety glasses or face shield
Hand protection:	Chemical-resistant, impermeable gloves (nitrile rubber or PVC).
Skin and Body Protection:	Long-sleeved overalls, protective work clothing, and boots to prevent skin exposure.
Respiratory Protection:	Not required under normal conditions of use with adequate ventilation. Use suitable respiratory protection when unusual conditions generate vapors or mists.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	white or coloured aqueous suspension
Odor:	Odourless
pH Level:	Alkaline pH 12-14
Melting / Freezing Point:	No data available
Boiling point / range:	No data available
Flashpoint:	Not applicable (aqueous mixture)
Evaporation rate:	No data available
Flammability:	Not applicable
Upper/Lower explosive limits:	Not applicable
Upper/Lower flammability limit:	Not applicable
Vapor Pressure:	No data available
Relative vapor density:	No data available
Relative Density:	1.2-1.4

Solubility in water:	<2g/L soluble
Partition coefficient: n-octanol/water:	Not applicable
Auto-ignition temperature:	Not applicable
Decomposition temperature:	Not applicable
Kinematic viscosity:	Not applicable
Particle characteristics:	Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity:

Sets by carbonation in the presence of carbon dioxide from air.

$Ca(OH)_2 + CO_2 \rightarrow CaCO_3 + H_2O$

Chemical Stability: Stable under recommended storage and handling conditions.
Possibility of Hazardous Reactions: None under normal processing and storage conditions.
Conditions to Avoid: Extreme heat, freezing conditions, and exposure to incompatible materials.
Incompatible Materials: Acids, strong oxidizing agents, reactive metals.
Hazardous Decomposition Products: None under normal ambient conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Toxicological Information of the Product: Cloudlime

Acute Toxicity:	Not classified
	Data not available.
Skin Corrosion/Irritation:	This product is classified. Category 2 (H315)
Serious Eye Damage/Irritation:	This product is classified. Category 1 (H318)
Respiratory or Skin Sensitization:	Not classified
	Data not available.
Germ Cell Mutagenicity:	Not classified
	Data not available.
Carcinogenicity:	Not classified
	Data not available.
Reproductive Toxicity:	Not classified
	Data not available.
STOT – Single Exposure:	Not classified
	Data not available.
STOT – Repeated Exposure:	Not classified
	Data not available.
Aspiration Hazard:	Not classified
	Data not available.

Toxicological Information on main components of the mixture

Calcium hydroxide
CAS: 1305-62-0

Acute Toxicity		
Oral (Rat)	LD50	>2000mg/kg
Dermal (Rabbit)	LD50	>2500mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Adopt good working practices, so that the product is not released into the environment

List of Eco-Toxicological properties of the product

Not classified for environmental hazards

Based on available data, the classification criteria are not met

List of Eco-Toxicological properties of the components

Calcium Hydroxide

CAS: 1305-62-0

Aquatic acute toxicity	LC50 Freshwater Fish	50.6mg/L 96H
Aquatic acute toxicity	LC50 Seawater Fish	457mg/L 96H
Aquatic acute toxicity	LC50 Daphnia	158mg/L 96H
Aquatic acute toxicity	EC50 Daphnia	49.1 mg/L 48H
Aquatic acute toxicity	EC50 Freshwater Algae	184.57 mg/L 72H
Plant toxicity	NOEC	1080mg/kg 21D

Persistence and degradability

Not applicable

Bioaccumulative potential

Not applicable

Mobility in soil

Not applicable

Results of PBT and vPvB assessment

vPvB	Not applicable
PBT	Not applicable

Other adverse effects

None

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal must be made according to official regulations.

Do not dispose together with other liquid household garbage.

Do not allow product to reach sewage system. Allow to dry out and dispose remaining dry material according to official regulations.

For recycling, only clean empty containers can be recycled. Use water as cleansing agent.

SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

UN Number:

Not regulated as a dangerous good for transport.

UN Proper Shipping Name:

Not applicable

Transport Hazard Class(es):

Not applicable

Packing Group:

Not applicable.

Environmental Hazards:

Not classified as a marine pollutant.

Special Precautions for User:

Ensure containers are upright and securely secured during local transit.

Transport in bulk according to Marpol 73/78 Annex 2 and the IBC Code

Not applicable for packaged products

ADR & IMDG: Not classified as dangerous products

IATA: Not classified as dangerous products

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulation specific for the product in questions

This Safety Data Sheet has been prepared according to

SS586: Part 1 (2021)

SS586: Part 2 (2014)

SS586: Part 3(2014)

SECTION 16: OTHER INFORMATION

Code	**Description**
H315	Causes skin irritation
H318	Causes serious eye damage

Code	**Hazard class and hazard category**	**Description**
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1

Key/legend to the abbreviations and acronyms

ACGIH: American Conference of Government Industrial Hygienist

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No Effect Concentration

EC: European Community

ADR: European Agreement concerning the International Carriage of Dangerous Good by Road

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EC50: Half Maximal Effective Concentration

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal Concentration, for 50% of test population

NIOSH: National Institute for Occupational Safety and Health

NOEC: No Observed Effect Concentration

OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
PEL-TWA: Permissible Exposure Limit - Time Weighted Average
PBT: Persistent, Bioaccumulative and Toxic
PNEC: Predicted No Effect Concentration, 4
REL-TWA: Recommended Exposure Limit - Time Weighted Average, 4
STOT: Specific Target Organ Toxicity
TLV-TWA: Threshold Limit Value - Time Weighted Average
vPvB: Very Persistent Very Bioaccumulative

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Prepared By: Aftertouch Works Pte Ltd
Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release.