SAFETY DATA SHEET

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : **CL-Water Seal**
Recommended of use : Water-based impregnation solution for water repellency in mineral surfaces.

Supplier : CLP Construction Systems Sdn. Bhd.
Lot 9, Jalan Sultan Mohamed 4, Selat Kelang Utara,
42000 Port Klang, Selangor Darul Ehsan, Malaysia.
Tel: 603-3176 5099

SECTION 2 : HAZARD IDENTIFICATION

GHS CLASSIFICATION:

Health Hazards: -
Skin irritation : Category 2

Environment Hazards: -
Hazardous to aquatic environment (Chronic) : Category 3

GHS label elements

Signal Word: **WARNING**

GHS HAZARD STATEMENTS:-

Health Hazards: -
H315: Causes skin irritation

Environment Hazards: -
H412: Harmful to aquatic life with long lasting effects

GHS PRECAUTIONARY STATEMENTS:
Prevention
P264: Wash hands, eyes and other necessary parts thoroughly after handling.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response
P362: Take off contaminated clothing and wash before reuse.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P332+P313: If skin irritation occurs: Get medical advice/attention.

Storage
P501: Dispose of contents / containers to prescribe premises in accordance with local regulations.

SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENT

Chemical characterization: Mixtures
Classification of hazardous components according to GHS

Chemical Name	CAS No.	Composition
Triethoxy(octyl)silane	2943-75-1	< 5%
Dimethyl siloxane with aminoethylaminopropyl silesquioxane, hydroxyl-term	68554-54-1	< 0.5%
Ethoxylated lauryl alcohol	9002-92-0	< 0.12%
Octamethylchyclotetrasiloxane	556-67-2	< 0.12%

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Hexadecyltrimethyl ammonium chloride	112-02-7	< 0.12%
Hexadecyltrimethylammonium acetate	51374-75-5	< 0.12%
Hexadecyldimethylamine	112-69-6	< 0.12%

SECTION 4 : FIRST AID MEASURES

EYES : Rinse cautiously with water for several minutes lifting eyelids to ensure complete flushing. Remove contact lenses, if possible. Get medical advice/attention if irritation persists.

SKIN : Remove contaminated clothing and wash affected area with plenty of soap and water. Get medical attention if irritation develops or persists.

INGESTION : Rinse mouth with water. DO NOT induce vomiting. If victim is conscious and alert, keep the affected person warm and at rest. Never give anything by mouth to an unconscious person. When vomiting spontaneously, incline the body to avoid aspiration into respiratory tract. Get medical attention immediately.

INHALATION : Remove to fresh air. If not breathing, give artificial respiration. If vomiting, incline the body to avoid aspiration into respiratory tract. Keep affected person warm and rest. Get immediate medical attention.

Most important symptoms/effects, acute and delayed: Causes skin irritation.

Indication of immediate medical attention and special treatment needed, if necessary: Treat symptomatically.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable fire extinguishing media:
On large fire, use dry chemical or foam. On small fires, use CO_2 or dry chemical. Water can be used to cool fire exposed containers.

Unsuitable extinguishing media:
Water jet or straight streams.

Specific hazards arising from the chemicals:
In the event of fire, carbon dioxide, carbon monoxide, silicone dioxide, nitrogen oxides and sulphur dioxide can be released.

Special protective equipment and precautions for fire fighters:
Do not inhale hazardous combustion gases. A self-contained breathing apparatus (SCBA) is recommended for indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of an SCBA is optional.
Respiratory and eye protection required for fire fighting personnel.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Observe all relevant local and international regulations.

Personal Precautions, Protective Equipment and Emergency Procedures:
Avoid skin and eye contact. Avoid breathing vapour, mist or fumes. Keep container closed. Do not take internally. Wear appropriate personal protective equipment like self-contained breathing apparatus or other supplied air respirator.

Environmental Precautions:
Do not empty into drains. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.

Methods and Material for Containment and Clean Up:
Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protective equipment recommendations described in this SDS. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Clean area as appropriate since spilled materials, even in a small quantity, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Spontaneous heating may occur for saturated absorbent or cleaning materials. Dispose all contaminated materials in accordance to the regulations.

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Additional Advice:
See Chapter 13 for information on disposal. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

SECTION 7 : HANDLING AND STORAGE

Precautions for safe handling
Use with adequate ventilation. Product evolves ethyl alcohol on exposure to water or humid air. Provide ventilation during use to control ethanol exposure within the exposure guidelines or use respiratory protection. Avoid skin and eye contact. Avoid breathing vapour, mist or fumes. Keep container closed. Do not take internally. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

Storage Conditions: Keep container closed and store away from water or moisture.

Recommended Materials: Plastic container.

Unsuitable Materials: Mild steel container.

SECTION 8 : EXPOSURE CONTROL AND PERSONAL PROTECTION

Engineering Controls:
Local Ventilation : Recommended
General ventilation : Recommended

Exposure limit for this product was not established.

Components with known occupational exposure limit values: -

Component	Exposure limit
Octamethylcyclotetrasiloxane	Guideline information: TWA 10ppm

Respiratory protection:
Use respiratory protection unless local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Suitable respirator: organic vapour/ dust/ mist type.

Skin protection:
Wash thoroughly after handling. Protective clothing is recommended. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse.

Eye protection:
Use chemical goggles with side shields.

Hygiene Measures:
Exercise good industrial hygiene practice. Wash thoroughly after handling, especially before eating, drinking or smoking.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Milky white liquid
Odor	: Mild
Odor threshold	: Not determined
pH	: Not determined
Melting point	: Not determined
Boiling range	: 100 °C
Flash point	: >100 °C
Evaporation rate	: Not determined
Flammability (solid, gas)	: Not applicable
Upper/lower flammability	: Not applicable
Vapour pressure	: Not determined
Vapour density (Air=1)	: Not determined
Specific gravity	: Approx. 1.0 @ 28 °C
Solubility in water	: Miscible
Partition coefficient: n-octanol/water	: Not determined
Auto-ignition temperature	: Not determined
Decomposition temperature	: Not determined.

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Kinematic viscosity : Not determined
Dynamic viscosity : 10sec (F4 Cup) @ 28°C

SECTION 10 : STABILITY AND REACTIVITY

Reactivity / Chemical stability: Stable under normal conditions of use.

Possibility of hazardous reaction: Hazardous polymerization will not occur.

Condition to avoid: None.

Incompatible materials:
Can react with strong oxidising agents. Water, moisture or humid air can cause hazardous vapours to form.

Hazardous decomposition products:
Carbon oxides and traces of incompletely burned carbon compounds. Silicone dioxide. Formaldehyde. Nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Route of exposure: Inhalation, skin contact and accidental ingestion.

Sign and symptoms of overexposure: Causes skin and eye irritation.

Acute toxicity:
Oral : LD50 (Rat) > 40242mg/kg
Dermal : LD50 (Rabbit) > 39920mg/kg
Inhalation : LD50 (Rabbit) > 1846mg/l

Skin corrosion/ irritation:
May cause moderate irritation, Cat.2.

Serious eye damage/ eye irritation:
May cause slight eye irritation/discomfort.

Respiratory/ skin sensitizer:
Not expected to be respiratory/ skin sensitizer.

Germ cell mutagenicity:
In vitro genetic toxicity studies were negative for component(s) tested.

Carcinogenicity:
Not expected to be carcinogenic.

Toxic to reproduction:
Not expected to be toxic to reproduction.

Specific target organ toxicity – single exposure:
Not a STOT-SE toxicant.

Specific target organ toxicity – repeated exposure:
Not classified.

Aspiration hazards:
Not likely to be an aspiration hazard.

SECTION 12 : ECOLOGICAL INFORMATION

Toxicity to fish: LC50 mix, Fish(96hr) = >22.6mg/l

Toxicity to daphnia and other aquatic invertebrates: EC50 mix,Daphnia(48hr) = >22.4mg/l

Toxicity to algae: EC50 mix, Algae(72hr) = >52mg/l

Mobility: Partial mobility in soil.

Persistence/degradability: Partially degradable.

Bioaccumulation: No bioaccumulation potential.

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Other adverse Effects: No data available

SECTION 13: DISPOSAL INFORMATION

Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods incompliance with applicable regulations.

Disposal should be in accordance with applicable regional, national and international regulations.

SECTION 14 : TRANSPORT INFORMATION

Proper Shipping Name : CL-Water Seal
Road and Rail Transport : Not regulated
Sea Transport : Not subject to IMDG code
Air Transport : Not subject to IATA regulations.
Special Requirements and additional information: None

SECTION 15 : REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Local Regulations

- Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulation 2013 (CLASS Regulations).
- Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulation 2000.
- Environmental Quality Act 1974, Environmental Quality (Scheduled Wastes) Regulations 2005.

SECTION 16 : OTHER INFORMATION

Date of Preparation : 30th November 2021
Revision Number : 2
Source of data : SDS of Material Manufacturers
Additional Information : The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product. For further information, contact **CLP Construction Systems Sdn. Bhd.**

Details of Changes from previous SDS:-

Section	Details of Changes
2	i.) Removed “serious eye damage/eye irritation” and added with “hazardous to aquatic Environment (chronic),Cat.3”. ii.) Removed H319 and added H412 under health hazard. iii.) Removed “P305+P352+P338” and “P337+P313” under response. iv.) Added P501 under storage.
11	Acute Toxicity: Updated the calculated values for Oral, Dermal and Inhalation, Skin corrosion/irritation, Serious eye damage/irritation, Respiratory/skin sensitizer, Germ cell mutagenicity, Specific target organ toxicity-single and repeated exposure and aspiration hazard.
12	Updated calculated values for toxicity of fish, daphnia and other invertebrates and algae, Mobility, Persistence/Degradability.

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