

SAFETY DATA SHEET

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : CL-Bond, CL-Bond Green Label
Code : Flex 2in1, G10, G12, W3, G3 GL
 Recommended/Restriction of use : Cementitious Tile Adhesive

 Supplier : CLP Construction Systems Sdn. Bhd.
 Lot 9, Jalan Sultan Mohamed 4, Selat Klang Utara,
 42000 Port Klang, Selangor Darul Ehsan, Malaysia.
 Tel: 603-3176 5099 ext: 224 or 606-2631677

SECTION 2 : HAZARD IDENTIFICATION

GHS CLASSIFICATION

Physical Hazard: -

Not applicable

Health Hazard: -

Skin corrosion or irritation (when moistened)	: Category 2
Serious eye damage or eye irritation	: Category 1
Skin sensitization	: Category 1
Carcinogenicity	: Category 1A
Specific target organ/systemic toxicity following single exposure	: Category 3
Specific target organ/systemic toxicity following repeated exposure	: Category 1

Other Hazard: -

Corrosive when moistened. When mixed with water (making concrete, mortar or when damp) a strong alkaline solution is produced.

GHS LABEL ELEMENT

Pictograms:



Signal Word : DANGER

GHS HAZARD STATEMENTS

Physical Hazards: -

Not applicable

Health Hazards: -

H315: Causes skin irritation (when moistened).
 H317: May cause an allergic skin reaction.
 H318: Causes serious eye damage.
 H335: May cause respiratory irritation.
 H350: May cause cancer (inhalation).
 H372: Causes damage to organs (lung/respiratory system) through prolonged or repeated exposure (inhalation).

GHS PRECAUTIONARY STATEMENTS:

Prevention:-

P201: Obtain special instructions before use.
 P202: Do not handle until all safety precautions have been read and understood.
 P260: Do not breathe dust.
 P261: Avoid breathing dust.
 P264: Wash hand, face and other necessary parts thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P271: Use only outdoor or in a well-ventilated area.
 P272: Contaminated work clothing should not be allowed out of the workplace.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

P281: Use personal protective equipment as required.

Response:-

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313: IF exposed or concerned: get medical advice/attention.

P310: Immediately call a POISON CENTRE or doctor/physician.

P312: Call a POISON CENTRE or doctor/physician if you feel unwell.

P314: Get medical advice/attention if you feel unwell.

P321: Specific treatment. Reference to supplemental first aid instruction.

P332+P313: If skin irritation occurs: get medical advice/attention.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

P363: Wash contaminated clothing before reuse.

Storage:-

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

Disposal:-

P501: Dispose of contents and container to appropriate waste side or reclaimer in accordance with local/regional/national/international regulations.

SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENT

Chemical Characterization: Mixture

Classification of Hazardous Components According to GHS:

Chemical Name	CAS No.	Proportion	Hazards Classification
GGBS	65996-69-2	10 – 30%	H315, H317, H318, H335, H350, H372
Hydraulic Cement	65997-15-1	30 – 60%	
Silica Sand	14808-60-7	30 – 60%	

SECTION 4 : FIRST AID MEASURES

The First Aid Measures for Different Exposure Routes

Inhalation:

Precautionary measures to minimize dust creation and use of suitable respiratory protection during handling and use to precedence over corrective measures. If dust is inhaled, move to fresh air. If nose or airways become irritated or inflamed, obtain medical attention.

Skin Contact:

Remove contaminated clothing and wash affected areas of skin with copious quantities of water. Obtain medical attention if any irritation persists.

Eyes Contact:

Irrigate the eyes with water or suitable proprietary eyewash for at least 15 minutes. Obtain immediate medical attention.

Ingestion:

Wash the mouth out with water, but do not swallow, then drink copious quantities of water. Do not induce vomiting.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable Fire Extinguishing Media:

Use extinguishing media appropriate for surrounding fire.

Specific Hazards Arising from the Substance or Mixture:

Water used for fire extinguishing, which has been in contact with the product, may be corrosive.

Special Protective Equipment and Precautions for Fire-fighters:

Selection of respiratory protection for fire-fighting: follow the general fire precautions indicated in the workplace. In case of contact with water used for fire extinguishing, use chemical resistant protective suit.

Normal precautions of fire-fighting from a reasonable distance.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Take precaution to prevent inhalation of dust and also avoid contact with skin and eyes. Provide adequate ventilation. Use protective gloves, goggles, and suitable protective clothing.

Environmental Precautions:

Do not allow to enter drains, sewers or watercourses. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

Methods and Materials for Containment and Cleaning:

Recover spillage in a dry state if possible but minimize the generation of airborne dust. Use of water will subsequently cause the product to set as a hard material.

SECTION 7 : HANDLING AND STORAGE

Precautions for Safe Handling:

Avoid creation of dust during use. Take precautions to prevent inhalation or eye contact with dust. Avoid skin and eye contact with wet product. Remove grossly contaminated clothing and launder before reuse. Wash hands after each work period and before meal and beverage breaks. The preparation or consumption of food or drink in the work area should be prohibited.

Conditions for Safe Storage, Including Any Incompatibilities:

Bags of product should be stacked in a safe and stable manner. Stored under cover and keep dry.

SECTION 8 : EXPOSURE CONTROL AND PERSONAL PROTECTION

Control Parameters

Permissible Exposure Limit for Respirable Quartz	: 0.1 mg/m ³
Permissible Exposure Limit for Respirable Dust	: 5.0 mg/m ³
Permissible Exposure Limit for Total Dust	: 10.0 mg/m ³

Engineering Controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contain ingredient with exposure limit use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limit.

Individual Protective Equipment

Respiratory Protection:

Dust mask is recommended during handling.

Hand Protection Description:

Protective gloves must be used if there is a risk of direct contact or splash. Use protective gloves made of: Nitrile.

Eye/Face Protection:

Wear dust resistant safety goggles where there is danger of eye contact.

Skin and Body Protection Description:

Wear appropriate equipment to prevent skin contact with wetted product; equipment could include water resistant footwear, gaiters, leggings and apron.

Hygiene Measures:

Remove contaminated clothing and wash the skin thoroughly with soap and water after work.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical state/appearance	: Grey/White powder
Odour	: Slightly sweet odour which increase in intensity when mixed with water
Odour threshold	: No data available
pH	: Produces high alkaline pH when mixed with water
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: Not applicable
Flash point	: Not applicable
Evaporation rate	: Not applicable

Flammability (solid)	: Not applicable
Upper/lower flammability or explosive limits	: Not applicable
Vapour pressure	: Not applicable
Vapour density	: Not applicable
Relative density	: No data available
Solubility	: Miscible with water
Partition coefficient: n-octanol/water	: Not applicable
Auto ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity	: Not applicable
Specific gravity (bulk)	: 1.3 @ 28°C

SECTION 10 : STABILITY AND REACTIVITY

Reactivity:

No specific test data related to reactivity available for this product or its ingredients.

Chemical Stability:

Stable under normal conditions or storage in use.

Possibility of Hazardous Reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid:

The product will harden into hard mass in contact with water and moisture.

Incompatible Materials:

No specific data.

Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 : TOXICOLOGICAL INFORMATION

Acute toxicity	: Not classified
Skin corrosion/irritation	: Mortar mixture has an irritating effect on moist skin. Repeated or prolonged contact with skin may cause allergic reactions in sensitive individuals.
Serious eye damage/irritation	: Mortar mixture is a severe eye irritant and brief exposure will cause some soreness. Gross exposure or untreated mild exposures will likely lead to chemical burning and ulceration of the eyes. Immediate first aid is necessary.
Respiratory sensitization	: No specific data
Skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: No specific data
Carcinogenicity	: May cause cancer (inhalation)
Reproductive toxicity	: No specific data
STOT – single exposure	: May cause respiratory irritation
STOT – repeated exposure	: Causes damage to organs (lung/respiratory system) through prolonged or repeated exposure (inhalation). May cause lung damage in the form of silicosis.
Aspiration hazard	: No specific data

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and Degradability

The product reacts with water to form a solid insoluble reaction product which is non-degradable, according to information available.

Bioaccumulation Potential

Bioaccumulation : No data available.

Mobility in Soil

Mobility : No data available.

Other Adverse Effects

May cause local adverse ecological effects in aquatic system due to alkaline properties.

SECTION 13 : DISPOSAL INFORMATION**Methods of Waste Disposal**

Dispose of waste material in a manner which minimises dust creation and complies with the relevant waste disposal regulations via authorized disposal operatives.

SECTION 14 : TRANSPORT INFORMATION

	Land Transport (ADR/ RID-AND)	Sea Transport (IMDG)	Air Transport (IATA)
UN Number	Not regulated	Not regulated	Not regulated
UN Proper Shipping Name	Not regulated	Not regulated	Not regulated
Transport Hazard Class	Not regulated	Not regulated	Not regulated
Packing Group	Not regulated	Not regulated	Not regulated
Environmental Hazard	Not regulated	Not regulated	Not regulated

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.
- Mineral Dust Regulation 1989.

SECTION 16 : OTHER INFORMATION

Date of Preparation : 28th February 2022

Revision Number : 6

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:-

Review.