KRET RAMMED EARTH

Kret Clay · Rammed Earth

1. IDENTIFICATION OF THE PRODUCT AND SUPPLIER

PRODUCT NAME	Kret Rammed Earth
PRODUCT TYPE	Layered clay and lime wall finish
PRODUCT CODE	KRET-007
RECOMMENDED USE	Decorative wall and floor finish for professional application by Kret crews.
USES ADVISED AGAINST	Uses other than those recommended. Not for consumer use without supervision.
SUPPLIER	Kret Co., Ltd. Bangkok, Thailand hello@kret.co.th
EMERGENCY TELEPHONE	Ramathibodi Poison Centre, Thailand: 1367 (24 hours)

2. HAZARD IDENTIFICATION

GHS CLASSIFICATION	Skin irritation, Category 2 (H315) Serious eye damage, Category 1 (H318) Specific target organ toxicity, single exposure, Category 3 (respiratory tract) (H335)
PICTOGRAMS	
SIGNAL WORD	**DANGER**
HAZARD STATEMENTS	• H315 Causes skin irritation. • H318 Causes serious eye damage. • H335 May cause respiratory irritation (dust from sanding or dry residue).
PRECAUTIONARY STATEMENTS	• P102 Keep out of reach of children. • P261 Avoid breathing dust. • P280 Wear protective gloves, eye protection and face protection. • P302+P352 IF ON SKIN: Wash with plenty of 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. • P310 Immediately call a POISON CENTRE or doctor. • P501 Dispose of contents and container in accordance with local regulations.
OTHER HAZARDS	Wet product is strongly alkaline. Prolonged contact with wet product can cause alkali burns.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

SUBSTANCE	CAS NO.	EC NO.	% W/W	CLASSIFICATION
Kaolin	1332-58-7	310-194-1	20–35	Not classified
Quartz (silica sand)	14808-60-7	238-878-4	30–50	Not classified; respirable fraction < 1%
Calcium dihydroxide	1305-62-0	215-137-3	5–15	Skin Irrit. 2 H315 · Eye Dam. 1 H318 · STOT SE 3 H335

Iron oxide pigments	1309-37-1	215-168-2	0-5	Not classified

4. FIRST-AID MEASURES

EYE CONTACT	Rinse immediately with plenty of clean water for at least 15 minutes, holding the eyelids open. Remove contact lenses if easy to do. Get medical attention immediately.
SKIN CONTACT	Remove contaminated clothing. Wash skin with plenty of water and mild soap. Get medical advice if irritation develops.
INHALATION	Move to fresh air. If breathing is difficult or irritation persists, get medical advice.
INGESTION	Rinse mouth with water and give a glass of water to drink. Do not induce vomiting. Get medical advice.
MOST IMPORTANT SYMPTOMS	Eye damage, skin irritation, irritation of the nose and throat from dust.

5. FIREFIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	The product is not flammable. Use media suited to the surrounding fire.
SPECIAL HAZARDS	None known. Packaging may burn.
ADVICE FOR FIREFIGHTERS	Wear self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Wear gloves, eye protection and, where dust is present, a dust mask (P2/N95). Avoid contact with eyes and skin.
ENVIRONMENTAL PRECAUTIONS	Do not allow into drains, sewers or watercourses.
CLEAN-UP	Scrape up paste or sweep up powder without raising dust and place in a closed container for disposal. Rinse the area with water.

7. HANDLING AND STORAGE

SAFE HANDLING	Avoid creating dust. Do not eat, drink or smoke while working. Wash hands after use.
STORAGE	Store sealed, upright, between +5 °C and +35 °C, out of direct sun. Do not freeze. Shelf life: 12 months, dry.
INCOMPATIBLE MATERIALS	Strong acids, aluminium and other reactive metals.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS	Calcium dihydroxide: TWA 5 mg/m³ (ACGIH TLV) Quartz, respirable fraction: TWA 0.025 mg/m³ (ACGIH TLV) Kaolin, respirable: TWA 2 mg/m³ (ACGIH TLV)
ENGINEERING CONTROLS	Use local extraction when mixing powders or sanding. Ensure good general ventilation.
EYE PROTECTION	Tight-fitting safety goggles (EN 166 or equivalent).
HAND PROTECTION	Nitrile or butyl rubber gloves, 0.4 mm or thicker, with cotton liners.
SKIN PROTECTION	Long sleeves and trousers. Change clothing soaked with wet product.
RESPIRATORY PROTECTION	P2 / N95 particle mask when dust is generated.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Paste

COLOUR	As ordered
ODOUR	Odourless
PH	11–12
DENSITY	1.9 kg/L
SOLUBILITY IN WATER	Partly soluble
FLASH POINT	Not applicable: non-flammable
VOC CONTENT	< 1 g/L
MELTING / BOILING POINT	Not applicable

10. STABILITY AND REACTIVITY

STABILITY	Stable under recommended storage conditions.
HAZARDOUS REACTIONS	Reacts with acids, releasing heat.
CONDITIONS TO AVOID	Frost, high humidity for powders, direct sun.
HAZARDOUS DECOMPOSITION	None under normal conditions.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	Not classified. Calcium dihydroxide LD50 oral (rat) > 2,000 mg/kg.
SKIN CORROSION / IRRITATION	Causes skin irritation.
SERIOUS EYE DAMAGE	Causes serious eye damage.
SENSITISATION	Not classified.
REPEATED EXPOSURE	Prolonged inhalation of respirable crystalline silica from sanding can damage the lungs. Control dust.
CARCINOGENICITY, MUTAGENICITY, REPRODUCTIVE TOXICITY	Not classified.

12. ECOLOGICAL INFORMATION

ECOTOXICITY	Raises the pH of water temporarily. Not expected to be harmful to aquatic life once neutralised.
PERSISTENCE AND DEGRADABILITY	Inorganic: not applicable. Cures to calcium carbonate in air.
BIOACCUMULATION	Not expected.

13. DISPOSAL CONSIDERATIONS

PRODUCT	Allow residues to cure, then dispose of as construction waste in line with local regulations.
PACKAGING	Empty pails fully and recycle where facilities exist.

14. TRANSPORT INFORMATION

UN NUMBER	Not regulated
TRANSPORT HAZARD CLASS	Not classified as dangerous goods for road, sea or air transport (ADR, IMDG, IATA).
MARINE POLLUTANT	No

15. REGULATORY INFORMATION

THAILAND	Hazardous Substance Act B.E. 2535 (1992). Notification of the Ministry of Industry on the classification and communication of hazards of hazardous substances B.E. 2555 (2012), GHS. Occupational Safety, Health and Environment Act B.E. 2554 (2011).
INTERNATIONAL	Prepared in line with the UN Globally Harmonized System (GHS), Rev. 9.

16. OTHER INFORMATION

REVISION	Version 1.0 · first issue 27 October 2026
ABBREVIATIONS	GHS: Globally Harmonized System. TWA: time-weighted average. ACGIH TLV: threshold limit value.
DISCLAIMER	The information in this safety data sheet is based on our present knowledge. It describes the product with regard to safety and does not guarantee its properties. Users must make sure they comply with local laws and regulations.