

# PATCHCRETE MATERIAL SAFETY DATA SHEET

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It is important that you, or any persons working for you or to whom you have supplied product(s) listed below, are familiar with the information contained within this Material Safety Datasheet before handling, using or disposing of the product(s).

# 1 PRODUCT AND SUPPLIER IDENTIFICATION

Kalmatron <sup>®</sup> PATCHCRETE PATCHCRETE
KALMATRON <sup>®</sup> Corporation,
276 Michelle Court South San Francisco, CA 94080, USA. helen@kalmaton.com

Uses: PATCHCRETE is a pre-bagged Cementitious Resurfacing & Coating Mix with high viscosity. It is used for the restoration of deteriorated asphalt, concrete, metal, masonry, ceramic and brick surfaces. Applied with a roller, screed with vibrator, or with a brush. Polishing after placement is an option as an enforcing treatment. PATCHCRETE has 2-3 times less shrinkage, no shrinkage cracks, and provides waterproofing, increased durability, density and freeze-thaw cycle resistance. Impermeable to crude oil; stops and prevents rebar corrosion.

### 2 HAZARD IDENTIFICATION

Classification:	Xi; irritant; R36/37/38, R43.
Human health hazards:	Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact.
Environmental hazards: Other hazards:	This product is not classed as dangerous for the environment. None.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nam	e: Regulatory number	r: EC numbe	er: %	: Classification:
<b>Portland Cen</b>	nent			
[chromium (V	I)			
of less than				
0.0002%]	CAS# 65997-15-1	266-043-4 >	>50%	Xi; irritant; R36/37/38, R43
Silica Sand	CAS#14808-60-7	238-878-4 <	<50%	Not classified
Chemical bas	e Krete100®	N/A >	>10%	Xi; irritant; R36/37/38, R43

#### See section 16 for full text of R-phrases

4 FIRST-AID ME	EASURES
General:	If after receiving first aid according to the following instructions and symptoms persist, immediately seek medical attention.
Inhalation:	Move exposed person to fresh air. Keep person warm and at rest.
Skin contact:	Remove contaminated clothing. Wash skin thoroughly with soap and water. If irritation persists seek medical attention.



Eye contact:	Check for and remove any contact lenses. Hold eye lids ajar and immediately flush eyes with water. Continue flushing eyes with water for at least 15 minutes.
Ingestion:	If swallowed, rinse mouth with water and drink plenty of water. Seek immediate medical advice and show container or label.
	TING MEASURES
This product is non-f	
Extinguishing media	
Suitable:	Use extinguishing media suitable for the surrounding fire.
Unsuitable:	Water jet - may spread fire.
Special exposure haz	ards: No specific fire or explosion hazard.
Hazardous combusti	on products: Possible formation of harmful combustion products.
	formed during the fire.
Advice for firefighters	: Fire-fighters should wear appropriate protective equipment resistant to chemical agents and a self-contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode. Fight fire hazard with cool water spray from safe distance. Do not allow extinguishing water to enter sewer system.
6 ACCIDENTA	L RELEASE MEASURES
Personal precautions:	Observe general safety rules. Put on appropriate

Personal precautions:	Observe general safety rules. Put on appropriate personal protective equipment (see section 8). Keep
	unnecessary and unprotected personnel from entering.
	Provide adequate ventilation. Avoid contact with eyes and skin.
Environmental and states	
Environmental precautions:	Do not allow dispersal of spilt material and runoff and contact
	with waterways, drains and sewers. Inform the relevant
	authorities if the product has caused environmental pollution
	(surface water and ground water).
Methods for containment and cl	ean up: Move containers from the spill area. Mop up
	material and place in suitable designated and labeled
	waste container. Activated material can be removed
	mechanically. Dispose of via a licensed waste disposal
	contractor.

See section 8 for personal protective equipment and section 13 for waste disposal.

7 HANDLING AND STORAC	iE
Handling:	Keep containers and/or packaging sealed until ready for use.
	Put on appropriate protective equipment (see section 8).
	Comply with Health and Safety at Work laws. Work in a well
	ventilated area. Avoid contact with eyes and skin. Do not
	ingest.
Storage:	Store in original packaging or tightly closed containers in a
	dry and well ventilated area. Do not store in temperatures
	below -22°C. Keep away from food, beverages and feeds. Avoid moisture - maximum humidity in storage area is 96%.



Specific applications:

Admixture for concrete and mortar. Inorganic oxidant micro/macro elements of the group of metals contained in the cement binders, providing electro-chemical dissolution of cement grains by electrolysis. For professional use only.

#### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure controls:	Do not eat, drink or smoke when working with product. Avoid contact with eyes and skin. Immediately after working wash hands thoroughly with soap and water.
Respiratory protection:	None required.
Eye protection:	Wear safety glasses/goggles.
Skin protection:	Wear suitable impervious gloves. Use of basic
principles of industrial hygiene will en	able this material to be used safely.
Environmental exposure controls:	Prevent direct discharge in to drains or watercourses.

# 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid, coarse dry powder.
Odor:	Characteristic (slight)
Color:	Cement Grey
pH:	9-11

Specific Gravity: Melting point: Density: Flammability: Solubility: Other information:	<ul> <li>2.16</li> <li>Not applicable.</li> <li>2265 Kg/m3 or 145 LB/CF</li> <li>Not flammable.</li> <li>PATCHCRETE is 15% soluble during mixing with the concrete batch.</li> <li>Melting point, freezing point, boiling point, flash point, evaporation rate, explosive limits, vapor pressure and density, partition co-</li> </ul>
Other information.	

- 10 STABILITY AND REACTIVITY
- Stability: Stable with any solid and finished matter in their accomplished phase, under normal conditions. Unstable during the hardening reaction like cement products when mixed with water. See handling and storage conditions (see section 7).

Conditions to avoid:Avoid moisture and high humidity.Materials to avoid:Accidental contact of unpacked product with water.Hazardous decomposition products:Under normal conditions of storage and use,hazardous decomposition products should not be produced.

11 TOXICOLOGICAL INFORMATION

Eye contact: Irritating, may cause chemical burns.
Skin contact: Irritating, may cause sensitization.
Ingestion: Swallowing large quantities may cause irritation to the gastrointestinal tract.
Inhalation: May irritate the throat and respiratory tract leading to coughing.

# 12 ECOLOGICAL INFORMATION



Ecotoxicity: This product is not classified as being hazardous to the environment (LC50 aquatic toxicity not determined). Persistence and degradability: The dried product may cause mechanical contamination of the soil. Bioaccumulative potential: Not expected to bio accumulate. Mobility: This product is expected to be completely soluble in water. Other adverse affects: None known.

# 13 DISPOSAL CONSIDERATIONS

Methods of disposal: Dispose of in accordance with local legislation. Prevent entry in to the sewage water system. Dispose of the hardened product as concrete waste.

European Waste Catalogue (EWC): 17 01 01 (construction and demolition wastes - concrete) and 15 01 02 (plastic packaging)

14 TRANSPORT INFORMATION

Product is not covered by the international regulation on the transport of dangerous goods (IMDG, ICAO/IATA, ADR/RID) and therefore no classification is required.

15 REGULATORY INFORMATION Regulation: According to 1999/45/EC Classification:



Risk phrases: R36/37/38 Irritating to eyes, respiratory system and skin.

R43 May cause sensitization by skin contact.

Safety Phrases:

Irritant

S2 Keep away from children.
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S46 If swallowed, seek medical advice immediately and show this container or label.

National legislation and requirements:

Health and Safety at Work etc Act 1974 Regulation (EC) No 1907/2006 Control of Substances Hazardous to Health Regulations COSHH 2002 Control of Substances Hazardous to Health (Amendment) Regulations COSHH 2004 Environmental Protection Act 1990 Any authorized manual on First Aid by St. John's Ambulance/St. Andrew's/Red Cross Manual Handling Operations Regulations 1992 (as amended)



# 16 OTHER INFORMATION

The information on this datasheet reflects the currently available knowledge and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or technical guidance literature. Any other use of the product is the responsibility of the user. It is implicit that the user is responsible for determining appropriate safety measures and for applying the legislation covering his/her own activities.

The information on this datasheet is accurate at the time of printing but KALMATRON<sup>®</sup> Corporation reserve the right to amend details as part of their product development program.