

PATCHCRETE MATERIAL SAFETY DATA SHEET

Date of issue: 09/02/2016

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

Product name: Kalmatron® PATCHCRETE

Product identifier: PATCHCRETE

Manufacturer: KALMATRON® Corporation,

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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: This product is not classed as dangerous for the environment.

Other hazards: None.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name: Regulatory number: EC number: %: Classification:

Portland Cement [chromium (VI) 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 base N/A >10%

See section 16 for full text of R-phrases

4 FIRST-AID MEASURES

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.

5 FIRE FIGHTING MEASURES

This product is non-flammable.

Extinguishing media:

Suitable: Use extinguishing media suitable for the surrounding fire.

Unsuitable: Water jet - may spread fire.

Special exposure hazards: No specific fire or explosion hazard.

Hazardous combustion products: Possible formation of harmful combustion products.

Do not inhale gases 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 ACCIDENTAL RELEASE MEASURES

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 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 clean 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 STORAGE

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 enable 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: 2.16

Melting point: Not applicable.

Density: 2265 Kg/m3 or 145 LB/CF

Flammability: Not flammable.

Solubility: PATCHCRETE is 15% soluble during mixing with the concrete batch. Other information: Melting point, freezing point, boiling point, flash point, evaporation

rate, explosive limits, vapor pressure and density, partition coefficient, auto ignition temperature, decomposition temperature, viscosity, explosive properties and oxidizing properties are all not

applicable.

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:

Irritant



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

and skin

R43 May cause sensitization by skin contact.

Safety Phrases:

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® Corporation reserve the right to amend details as part of their product development program.