

Kalmatron® K100® SAFETYDATA SHEET Date of revision: 2/19/25

SECTION 1: IDENTIFICATION

Product name: KALMATRON® K100®, USA PATENT N. 77464853 & EU N. 6915839

Synonyms: KALMATRON®, USA PATENT #2,724,832; Admixture, Additive to Concrete, Plasticizer, Water Reducer, HRWR.

Intended Use of the Product

Liquid admixture to concrete and mortar mixes for the production of non-shrinking, waterproof concrete and stucco with increased density and strength. For professional use only.

Manufacturer

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Telephone: +1 (415) 385-3290 (non-emergency matters; regular business hours).

Emergency (24 hours): CHEMTREC: 1 (800) 424-9300

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Under normal use conditions, this product is not expected to cause adverse health effects.

GHS Hazards, Label Elements and Precautionary Statements

OSHA/HCS Classification of the chemical

- ⚠ Warning, Skin Irrit. 2, Causes skin irritation.
- ⚠ Warning, Eye Irrit. 2A, Causes serious eye irritation.
- ⚠ Warning, STOT SE 3, May cause respiratory irritation.

CARCINOGENICITY/INHALATION – Category 1A

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation] – Category 3

Label elements

Symbols:



Warning

Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

May cause an allergic skin reaction. May cause respiratory irritation. May cause cancer.

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
Wear an approved particle respirator.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep 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. P312 Call a doctor if you feel unwell.
P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container in accordance with applicable regulations.
Special Provisions: None
Hazards not otherwise classified identified during the classification process: None
Ingredient(s) with unknown acute toxicity: None.

Symptoms and Precautions

Inhalation: May cause respiratory irritation. Inhalation of vapor may cause shortness of breath, sneezing and coughing. (See Section 4 for first aid)

Ingestion: Ingestion is not anticipated in an industrial environment. If large amounts are ingested, the product may cause irritation and nausea. (See Section 4 for first aid)

Skin contact: Wear protective gloves and protective clothing, (See Section 8). Skin contact with this product may cause skin irritation and redness. (See Section 4 for first aid).

Eye contact: Wear eye protection. Eye contact may cause irritation.

Chronic: This product is not known to pose any chronic health hazards.

Carcinogenic evaluation: No part of this product contains materials known to be carcinogens.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS No.	Weight %
Tap water	CAS# 7789200	>85%
Chemical base	N/A	<15%

SECTION 4: FIRST AID MEASURES

General: If, after receiving first aid according to the following instructions, any 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.

SECTION 5: FIREFIGHTING MEASURES

This product is non-flammable. Use extinguishing media suitable for the surrounding fire. Do not allow extinguishing water to enter the sewer system.

Suitable extinguishing media: Use Water Spray. Water jet may spread fire.

Specific hazards: Do not inhale gases formed during the fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Immediately contact emergency personnel. Avoid breathing vapors or mist. Ensure adequate ventilation. For personal protection, see Section 8.

Large Spill: Do not allow product to enter drains, waterways and sewers. Personnel must have appropriate training, per Occupational Safety and Health Administration (OSHA) 29 CFR 1910.120.

Methods for Containment and Clean up: Avoid creating or breathing vapor. Mop up and keep in a suitable, closed container for disposal. Wear personal protective equipment (Section 8).

SECTION 7. HANDLING AND STORAGE

Handling: Avoid formation of vapor. Avoid freezing of the product. 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: Keep containers closed when not in use. The shelf life is unlimited when the product is stored in its original packaging or tightly closed containers in regular conditions. Do not store in temperatures below 22 degrees Celsius. Keep away from food, beverages and feeds. Avoid freezing. See Section 10, Stability and Reactivity.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: Wear an approved particle respirator. Particle filter device (DIN EN 143).

Skin and body protection: Handle with impervious (PVC, neoprene, nitrile) gloves. Choose body protection, e.g. impervious apron, sleeves, coveralls, according to the amount and concentration of dust created.

Eye protection: Wear safety glasses with non-perforated side shields or goggles

Hygiene measures: Avoid skin exposure. Do not eat, drink or smoke when working with product. Avoid contact with eyes and skin. Wash hands thoroughly with soap and water immediately after contact.

Other precautions: Recommend emergency eyewash and shower in the immediate area.

Wear ANSI approved safety glasses or goggles to protect eyes
Wear Latex or rubber gloves to protect skin
Wash hands thoroughly before breaks and at end of work day

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid

Substance type (pure/mixture): Mixture

Color: Transparent, light-lime

Odor: Characteristic (slight).

Density: 1040 kg/m³ - 1050 kg/m³

pH: 12.13

Specific Gravity: 2.16

Water solubility: 98.5% soluble during mixing with the concrete batch.

Flammability: Not flammable.

Freezing point: -22°C.

VOC content: Not applicable.

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.

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable in recommended storage conditions. Unstable during the hardening reaction, like cement products when mixed with water. See handling, and storage conditions (see section 7).

Possibly hazardous reactions: Not known.

Incompatible materials: Not known.

Conditions to avoid: Avoid freezing of product; avoid leaving container open during storage.

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

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity: No toxicity data is available for the product as a mixture.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects: 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: This product does not bioaccumulate.

Mobility in soil: This product is expected to be completely soluble in water.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal considerations: Dispose of in accordance with state/provincial, and local regulations. Prevent entry in to the sewage water system. Dispose of the hardened product as concrete waste.

SECTION 14. TRANSPORT INFORMATION

Please refer to DOT regulation 49 CFR 172.101:

Transport information: Not regulated for transport

Hazardous Materials Description: (DOT and IATA): None

UN/identification no.: None

Proper shipping name: None

Hazard class: None

Packing group: None

DOT reportable quantity (lbs.): None

SECTION 15. REGULATORY INFORMATION

U.S. federal regulatory information: State and community right-to-know regulations:
The following component(s) of this material are identified on the regulatory lists below:
U.S. TSCA Chemical inventory Section 8(b), AICS (Australia), DSL (Canada): All components are listed or exempt.
CERCLA Sections 102a/103 (40 FR 302.4): This product is not classified as hazardous or reportable under this requirement.
SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21)
Acute health hazard: No
Chronic health hazard: No
Fire hazard: No
Reactive Hazard: No
Pressure Hazard: No
Marine Pollutant: Not listed
State Regulations: Unknown
California Proposition 65 Components: None.
INTERNATIONAL REGULATIONS Identification According to EEC Directives: Not available
WHMIS (Canada): Not controlled.

***NOTE:** User must consult with applicable state and local agencies for special specifics, determinations or compliance obligations regarding this product.*

SECTION 16. OTHER INFORMATION

K100® Safety Data Sheet, dated 2/19/25

Disclaimer:

This Safety Data Sheet cancels and replaces any preceding release.

The information on this Safety 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 instructions and safety information specified on the packaging and/or in the technical guidance literature. The information and recommendations contained herein are based upon tests, data, and information resources believed to be reliable. However, Kalmatron Corporation does not guarantee the accuracy or completeness, nor shall any of this information constitute a warranty, representation, or license of any kind, whether expressed or implied, as to the safety of goods, the merchantability of the goods or the fitness of the goods for a particular purpose. Kalmatron Corporation assumes no responsibility for injuries proximately caused by use of the Materials if reasonable safety procedures are not followed as stipulated in this Safety Data Sheet. Additionally, Kalmatron Corporation assumes no responsibility for injuries proximately caused by abnormal use of the Material even if reasonable safety procedures are followed. The buyer assumes the risk in its use of the Material. Any other use of the product is the responsibility of the user. It is implicit that the user is responsible for determining the 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 its product development program.