

CONCRETE MOISTURE SOLUTIONS, INC. / BARRIER ONE, INC.  
SAFETY DATA SHEET

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Product Name:

**CMS/BOI MVRA**

**Moisture Vapor Reduction Admixture (water-based concrete admixture)**

**SECTION I**

Product Description:

**Moisture Vapor Reduction Admixture (water-based concrete admixture). A Nano Scale, Chemical Formation of Micro Calcium Silicate Hydrate Molecules that blocks Moisture Vapor Transmission through the Capillary System and Pore Structure of Cementitious Structural Concrete.**

**MANUFACTURER**

Concrete Moisture Solutions, Inc., 640 Garden Commerce Pkwy, Winter Garden, Florida 34787  
Technical Services: 877.224.5850

**SUPPLIER**

CMS/BOI Admix, 640 Garden Commerce Pkwy, Winter Garden, Florida 34787  
Technical Services: 877.224.5850

**EMERGENCY TELEPHONE NUMBER:** 800.222.1222 American Association of Poison Control Centers

**SECTION II – HAZARDOUS INGREDIENTS IDENTITY INFORMATION**



**WARNING**

**Hazard statement(s):**

Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.

**Precautionary statement(s):**

Avoid breathing mist/vapors.  
Do not get in eyes, on skin or on clothing.  
Wear protective gloves/protective clothing/  
Eye protection/face protection.

IF ON SKIN (or hair): Remove/Take off  
Immediately all contaminated clothing.  
Rinse skin with water/shower. IF IN EYES:  
Rinse cautiously with water for several  
minutes. Remove contact lenses, if present  
and easy to do. Continue Rinsing.

**Hazardous Ingredients:**

Chemical Name: Inorganic, chemically reactive,

**OSHA PEL**

NONE

**ACGIH TLV**

NONE

**Other Limits**

N/A

**%**

N/A

- Proprietary Formulation of Inert Inorganic Compounds
- Potassium Hydroxide (CAS #1310-58-3)

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HAZARD: No evidence of health hazards exist. There are no ingredients present which, within the current knowledge of the manufacturer and in the concentration applicable, are classified as hazardous to health or the environment and are considered non-hazmat. Product contains no materials known to the state of California to cause cancer, birth defects, or other reproductive toxicity.

Hazard Rating Scale	Hazard Rating (NFPA 704 criteria)	HMIS Rating
0 = Minimal	Health: 1	Health: 2
1 = Slight		
2 = Moderate	Fire: 0	Fire: 0
3 = Serious		
4 = Severe	Reactivity: 0	Reactivity: 0
Special: None		

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**SECTION III –COMPOSITION**

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<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Weight %</u>
Water	7732-18-5	> 60.0
Potassium Hydroxide	1310-58-3	>3.0

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**SECTION IV – EMERGENCY FIRST AID PROECDURES**

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Eyes:	Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention.
Skin:	Immediately flood the skin with large quantities of water. Remove contaminated clothing and shoes. Obtain medical attention.
Ingestion:	If swallowed, obtain medical attention immediately. If victim is fully conscious, give a cupful of milk. If conscious, induce vomiting. Never give anything by mouth to an unconscious person.
Inhalation:	Remove to fresh air. If not breathing, trained medical personnel should initiate artificial respiration. Obtain medical attention.

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**SECTION V – FIRE AND EXPLOSION HAZARD DATA**

Non-flammable, water based product. In store area use water, dry chemical, CO2 or foam. Is compatible with all extinguishing media.

Flash point	Non-flammable	Upper Flammable Limit (UFL): N/A	Lower Flammable Limit (LFL): N/A
Explosion data – sensitivity to impact:	N/A	Explosion data – sensitivity to static discharge	N/A
Auto-ignition Temp:	N/A	Special Firefighting procedures	None

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**SECTION VI – Accidental Release**

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Spill procedures:	Small spills – neutralize liquid with large quantities of water and mop up.
Personal precautions:	Avoid prolonged contact with skin. Wear chemical goggles, body-covering protective clothing, chemical resistant gloves and rubber boots. Use a NIOSH-approved dust and mist respirator where spray mist occurs.

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**SECTION VII – Handling and Storage**

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Handling: Avoid contact with eyes, skin, and clothing. Avoid breathing mist. Keep container closed. Promptly clean up spills.

Storage: Keep container closed. Store in a clean steel or plastic containers. Separate from acids, reactive metals and ammonium salts. Store above 36 degrees Fahrenheit (2 degrees Celsius). If frozen, do not use and contact the company. Indefinite shelf life if kept from freezing.

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**SECTION VIII – CONTROL MEASURES**

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RESPIRATORY: Use a NIOSH-approved dust and mist respirator where spray mist occurs.

VENTILATION: Local exhaust. Keep containers closed. Safety shower and eyewash fountain nearby.

PROTECTIVE GLOVES: Impervious, nitrile, rubber or better.

EYE PROTECTION: Plastic only safety glasses, goggles or face shield

OTHER PROTECTION: Clothing which will protect from skin contact as needed.

WORK/HYGENIC PRACTICES: Wash hands after handling and before eating or using toiletries. Maintain clean environment with any spills removed.

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**SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES**

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Physical State	Liquid	Boiling Point 212 <sup>0</sup>
Odor & Appearance	clear to hazy	Specific gravity 1.233
Solubility in water	soluble	Vapor pressure ND
Vapor density	ND	Evaporation rate ND
Volatile organic compounds	0 g/l	pH (fluid) 10.7

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**SECTION X – STABILITY AND REACTIVITY DATA**

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Stability:	Stable under normal conditions
Conditions to avoid:	Do not allow to freeze
Incompatibility - materials to avoid:	Generates heat when mixed with acid. May react with ammonium salts resulting in evolution of ammonia gas. Flammable hydrogen gas may be produced on contact with tin, lead, and zinc.
Hazardous polymerization:	Will not occur
Hazardous decomposition or by products:	None known

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**SECTION XI – Toxicological Information**

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Route of entry: Eye contact; ingestion, skin contact  
Carcinogenic status: Not considered carcinogenic by NTP, IARC, and OSHA  
Target organs: Skin, eye, and lungs  
Health effects – eye: Moderate irritation expected  
Health effects – skin: Moderate irritation expected  
Health effects – inhalation: Spray mist is irritating to the respiratory system  
Health effects – ingestion: May cause irritation to the mouth, esophagus and stomach; may cause damage to kidney, central nervous system and blood  
Carcinogenic status: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.  
Reproductive effects: None known.  
Teratogenicity: Not expected to be a teratogen.  
Mutagenicity: None known.  
Epidemiology: Not known.  
Sensitization to material: None known.  
Synergistic materials: None known.  
Irritancy: Mild.  
Other important hazards: None known.  
Conditions aggravated by overexposure: Pre-existing skin, eye and respiratory disorders.

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**SECTION XII – Ecological Information**

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Neutralize with large quantities of water.

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**SECTION XIII – Disposal Considerations**

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Dispose of in accordance with federal, provincial and local environmental regulations or permits.

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**SECTION XIV – TRANSPORTATION**

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Ground – USA and Puerto Rico (DOT): Not regulated; keep from freezing Class – 2839.19	Sea (IMDG): Not Regulated	HS Tariff
Ground – Canada (TDG): Not regulated; keep from freezing No. – 283919	Air (IATA): Not Regulated	Schedule B

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**SECTION XV – Regulatory Information**

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**US Federal Information:**

**TSCA** information: All ingredients are listed on the TSCA inventory.

**CERCLA** Reportable Quantity (RQ) (40 CFR 117.302): None reported.

**SARA TITLE III:** Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

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**SARA TITLE III:** Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: This product does not contain any substances with SARA reporting requirements.

**SARA TITLE III:** Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above the minimum concentrations.

**US State Right to Know Laws:**

**California Proposition 65:** To the best of our knowledge, this product does not contain any chemicals known to the State of California to cause cancer or reproductive harm.

**Other U.S. State "Right to Know" Lists:** None known or reported by the manufacturer.

**International Information:**

Canadian Environmental Protection Act (CEPA): All components of this product are on the Canadian DSL list.

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**SECTION XVI – Other Information**

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**REVISION DATE:** July 23, 2015

**Legend:** ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstract Services  
CPR: Controlled Products Regulation  
DSL: Domestic Substances List  
IARC: International Agency for Research on Cancer  
Inh: Inhalation  
LC: Lethal Concentration  
LD: Lethal Dose  
N/A: Not Applicable  
N/Av: Not Available  
N/D: Not Determined  
NIOSH: National Institute of Occupational Safety and Health  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible exposure limit  
RTECS: Registry of Toxic Effects of Chemical Substances  
STEL: Short Term Exposure Limit  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TWA: Time Weighted Average  
TSCA: Toxic Substance Control Act  
WHMIS: Workplace Hazardous Materials Identification System

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