

**BARRIER ONE PIA
SAFETY DATA SHEET**

Product Name:
Barrier One PIA Admixture

SECTION I

Product Description:
Porosity Inhibiting 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.

MANUFACTOR:

Barrier One Concrete Admixtures, 640 Garden Commerce Pkwy, Winter Garden, Florida 34787
Technical Services: 800.562.9986

SUPPLIER:

Barrier One Concrete Admixtures, 640 Garden Commerce Pkwy, Winter Garden, Florida 34787
Technical Services: 800.562.9986

EMERGENCY TELEPHONE NUMBER: 800.222.1222 American Association of Poison Control Centers

SECTION II – HAZARDOUS INGREDIENTS IDENTITY INFORMATION



WARNING

Hazard statement(s):

Can cause skin irritation.
Can cause 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.

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

SECTION III –COMPOSITION

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Weight %</u>
Water	7732-18-5	> 45.0
Trade Secret	NA	>60.0
Trade Secret	NA	>15.0
Trade Secret	NA	>15.0

SECTION IV – EMERGENCY FIRST AID PROECDURES

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.

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

SECTION VI – Accidental Release

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.

SECTION VII – Handling and Storage

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. Shelf life is one year if kept from freezing.

SECTION VIII – CONTROL MEASURES

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.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Boiling Point 212 ^o
Odor & Appearance	Translucent Blue	Specific gravity 1.22
Solubility in water	soluble	Vapor pressure ND
Vapor density	ND	Evaporation rate ND
Shipping Weight	9.6 lbs./gal	pH (fluid) 11.3

SECTION X – STABILITY AND REACTIVITY DATA

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

SECTION XI – Toxicological Information

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.

SECTION XII – Ecological Information

Neutralize with large quantities of water.

SECTION XIII – Disposal Considerations

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

SECTION XIV – TRANSPORTATION

Ground – USA and Puerto Rico (DOT): Not regulated; keep from freezing Sea (IMDG): Not Regulated

Ground – Canada (TDG): Not regulated; keep from freezing Air (IATA): Not Regulated

SECTION XV – Regulatory Information

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.

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.

SECTION XVI – Other Information

REVISION DATE: Sept. 22, 2021

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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