

Material Safety Data Sheet (MSDS)

BC Sand Bond EG

Environmental Grade Sand Binder / Surface Stabilizer

SECTION 1: Identification of the Substance/Mixture and of the Company

Product Name: BC Sand Bond EG

Description: Water-based polymer dispersion for sand binding & dust control.

Recommended Use: Sand stabilization, dust suppression, erosion control.

Restrictions on Use: Not for structural concrete or load-bearing applications.

Manufacturer:

Building Chemistry Industry (BCI)

3rd Industrial Area, Dammam

Kingdom of Saudi Arabia

Email: info@bcisaudi.com

SECTION 2: Hazards Identification

GHS Classification:

This product is not classified as hazardous under GHS/CLP regulations.

GHS Label Elements:

- Signal Word: None
- Hazard Statements: Not applicable (non-hazardous)
- Precautionary Statements:
 - P102: Keep out of reach of children
 - P264: Wash hands after handling
 - P280: Wear protective gloves/eye protection
 - P305+P351: IF IN EYES: Rinse cautiously with water

Other Hazards:

- May cause temporary eye or skin irritation in sensitive individuals.
- Slippery when spilled.

- No PBT/vPvB substances present.

SECTION 3: Composition / Information on Ingredients

This product is a mixture.

Component	CAS No.	Approx. %	Classification
Vinyl acetate polymer dispersion	Proprietary	10–40% solids	Non-hazardous
Water	7732-18-5	Balance	Non-hazardous
Additives (surfactants, stabilizers)	Proprietary	<1%	Non-hazardous

No hazardous ingredients above reportable limits.

SECTION 4: First Aid Measures

Inhalation:

Move to fresh air. Product is not expected to present inhalation hazard.

Skin Contact:

Wash with soap and water. Remove contaminated clothing.

Eye Contact:

Rinse immediately with clean water for 10–15 minutes. Seek medical attention if irritation persists.

Ingestion:

Rinse mouth. Give water to drink. Do NOT induce vomiting. Seek medical attention if large quantities are swallowed.

Most Important Symptoms:

Mild irritation of eyes or skin.

SECTION 5: Fire-Fighting Measures

Suitable Extinguishing Media:

Water spray, foam, CO₂, dry powder.

Specific Hazards:

- Product is non-flammable.
- Dried residue may burn and produce CO, CO₂.

Protective Equipment for Firefighters:

Standard protective clothing and self-contained breathing apparatus (SCBA) if necessary.

SECTION 6: Accidental Release Measures

Personal Precautions:

- Avoid slipping on spilled material.
- Wear gloves and safety glasses.

Environmental Precautions:

- Prevent large spills from entering waterways.
- Product is non-toxic but may cause turbidity.

Cleanup Methods:

- Contain using sand or absorbent.
- Collect and dispose according to local regulations.
- Wash area with water.

SECTION 7: Handling and Storage

Handling:

- Use protective gloves and eye protection.
- Avoid contact with eyes.
- Mix or dilute using clean water only.
- Do not allow to dry inside spray equipment.

Storage:

- Store in original containers.
- Keep sealed.
- Temperature: +5°C to +40°C.
- Protect from direct sunlight and freezing.

- Shelf Life: 12 months unopened.

SECTION 8: Exposure Controls / Personal Protection

Exposure Limits:

No occupational exposure limits established.

Engineering Controls:

Normal ventilation is sufficient.

Personal Protective Equipment (PPE):

- Eye Protection: Safety goggles
- Skin Protection: Gloves (nitrile or latex)
- Respiratory Protection: Not required under normal use
- Hygiene: Wash hands before eating or drinking

SECTION 9: Physical and Chemical Properties

Property	Value
Appearance	White liquid (dries clear)
Odor	Slight acetate odor
pH	4.5–6.0
Specific Gravity	~1.06
Solids Content	10–40%
Viscosity	200–1200 cP
VOC Content	<0.01%
Flash Point	Not applicable (non-flammable)
Freezing Point	~0°C

SECTION 10: Stability and Reactivity

Reactivity: Non-reactive.

Stability: Stable under recommended storage conditions.

Hazardous Reactions: None known.

Conditions to Avoid:

- Freezing
- Extreme heat
- Direct sunlight (long-term exposure)

Hazardous Decomposition Products:

CO, CO₂ from burning dried film.

SECTION 11: Toxicological Information

Acute Toxicity: Non-toxic.

Skin Contact: May cause mild irritation in sensitive individuals.

Eye Contact: May cause temporary irritation.

Inhalation: No known hazards.

Ingestion: Low toxicity; large amounts may cause discomfort.

Carcinogenicity: Not classified.

Mutagenicity: Not classified.

Reproductive Toxicity: Not classified.

SECTION 12: Ecological Information

Environmental Impact:

- Non-toxic to environment
- Water-based, biodegradable components
- Very low VOC emissions

SECTION 13: Disposal Considerations

- Dispose of material according to local regulations.
- Do not discharge large quantities into drains.
- Dried residue may be disposed as non-hazardous solid waste.

- Empty containers should be triple-rinsed before disposal.

SECTION 14: Transport Information

Not classified as dangerous goods.

Mode Classification

ADR / Road Non-hazardous

IMDG / Sea Non-hazardous

IATA / Air Non-hazardous

No special transport precautions required.

SECTION 15: Regulatory Information

- Not classified as hazardous under GHS / CLP.
- VOC compliant.
- Contains no substances listed as SVHC (REACH).
- Environmentally friendly water-based formulation.

SECTION 16: Other Information

Training Advice:

Personnel should be trained in handling water-based polymers and PPE use.

Key Statements:

- Product is safe, non-flammable, and environmentally friendly.
- Follow dilution rates and application guidelines for best performance.

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