



**SECTION 1—PRODUCT AND COMPANY IDENTIFICATION**

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**1.1 Product Identifiers**

**Product Name:** Base-Seal® (BS-100) Concentrate  
**SDS Number:** BASEC

**1.2 Relevant Identified Uses:** Used as a mechanical binder and soil modifier for soil stabilization and full depth reclamation.

**1.3 Details of the Supplier of the Safety Data Sheet**

**Manufacturer/Distributor:** Base-Seal International, Inc., 5226 Englewood Point Ct., Katy, TX 77494  
1-(281)-497-7743  
**Product Information:** 1-(832)-906-9154

**1.4 Emergency Phone Number** 1-(832)-906-9154

**SECTION 2—HAZARDS IDENTIFICATION**

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**2.1 Classification of Substance or Mixture**

**Product Definition:** Mixture

**Classification in Accordance with 29 CFR 1910 (OSHA HCS) and Regulation (EC) No 1272/2008:**

- Acute Toxicity, Oral - Category 5 [H303], May be Harmful if Swallowed
- Skin Irritation - Category 2 [H315], Causes Skin Irritation
- Eye Irritation - Category 2B [H320], Causes Eye Irritation

**2.2 Label Elements**

**Hazard Symbol:**  GHS07 (Irritant to skin & eyes, Low systemic health hazard)

**Signal Word:** Warning

**Hazard Statements:**

- May be Harmful if Swallowed [H303]
- Causes Skin Irritation [H315]
- Causes Eye Irritation [H320]

**Precautionary Statements**

**Prevention:**

- Wear Protective Gloves, Protective Clothing and Eye Protection. [P280]
- Wash hands & other skin exposed to mixture thoroughly after handling. [P264]

**Response:**

- IF ON SKIN: Wash with plenty of soap and water. [P302], [P352]
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present. Continue rinsing. [P305], [P351], [P338]

**Specific Treatment:**

- Call doctor if you feel unwell, if skin irritation occurs or if eye irritation persists. Refer to Section 4 of this SDS. [P321], [P312], [P332], [P337], [P313]

**SECTION 3—COMPOSITION / INFORMATION ON INGREDIENTS**

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**3.1 Substances—**Not applicable

**3.2 Mixtures—**Formulation is considered a trade secret. Chemical identity and percentage composition will be provided to health professionals as needed for medical treatment.  
There are no additional ingredients present in this product which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment.

## SECTION 4—FIRST AID MEASURES

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### 4.1 Description of First Aid Measures

- **Inhalation:** If product mist or spray causes respiratory irritation or distress, move the exposed person to fresh air immediately. If symptoms persist, seek medical attention.
- **Eyes:** Immediately flush eyes with water or saline solution for at least 15 minutes, occasionally lifting upper and lower lids. After first 2 minutes, remove contact lenses if easy to do and continue rinsing. If irritation persists, seek medical attention.
- **Skin:** Flush skin with large amounts of water while removing contaminated clothing. Wash affected area with soap & water & rinse thoroughly. Wash contaminated clothing & shoes before reuse. If irritation persists, seek medical attention.
- **Ingestion:** Rinse mouth with water. DO NOT induce vomiting. Seek immediate medical attention.

### 4.2 Potential Health Symptoms and Effects

- **Inhalation:** May cause irritation of the mucous membranes & upper respiratory system. Symptoms may include sore throat, runny nose, cough and shortness of breath.
- **Eyes:** Causes eye irritation including inflammation, pain, tears, blurred vision. Prolonged contact may cause burns and other damage to eyes.
- **Skin:** Causes skin irritation with localized redness, itching & discomfort. Prolonged and repeated contact with skin may cause dermatitis and drying of the skin.
- **Ingestion:** Causes irritation of the GI tract with nausea, vomiting, abdominal pain & diarrhea. May cause burns to the lips, mouth, throat and digestive tract.
- **Chronic:** Pre-existing disorders of the skin & respiratory system may be aggravated by exposure to this product.

### 4.3 Advice to Medical Personnel: Treat Symptomatically and Supportively

## SECTION 5—FIRE FIGHTING MEASURES

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**5.1 Suitable Methods of Extinction:** Product is not flammable. Use extinguishing media for adjacent fire.

**Unsuitable Methods of Extinction:** None known

**5.2 Special Hazards:** Closed containers may rupture due to the buildup of pressure when exposed to extreme heat.

**Explosion Hazards:** Not considered to be an explosion hazard.

**5.3 Advice for Firefighters:** Use full protective equipment including self-contained breathing apparatus. May use water to cool closed containers to prevent pressure buildup & possible explosion when exposed to extreme heat.

## SECTION 6—ACCIDENTAL RELEASE MEASURES

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**6.1 Personal Precautions, Protective Equipment & Emergency Procedures:** Wear protective clothing and equipment listed in Section 8.2. Ventilate the area. Remove sources of ignition. No smoking. Clean up spills immediately.

**6.2 Environmental Precautions:** Avoid dispersal of spilled material & prevent entry into drains, sewers or waterways.

**6.3 Methods & Materials for Containment & Clean Up:** Cover spill with large quantity of inert absorbent. Collect material and place in approved container for proper disposal. Do not allow material or runoff to enter floor or storm drains or ditches that lead to waterways. Dispose of in accordance with local & national regulations.

## SECTION 7—HANDLING AND STORAGE

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**7.1 Precautions for Safe Handling:** Wear personal protective equipment, see Section 8.2. Do not get in eyes. Avoid prolonged/repeated contact with skin. Do not take internally. Do not inhale mist or spray. Provide fresh air ventilation during & after use. After handling, wash hands before eating or drinking. Wash contaminated clothing.

**Advice on Protection Against Fire and Explosion:** This product is not considered a fire or explosion hazard.

## 7.2 Conditions for Safe Storage, Including Any Incompatibilities

Store in dry, cool & well ventilated areas out of direct sunlight. Protect from temperatures above 120°F or below 32°F. Keep containers tightly closed when not in use. Protect containers from physical damage. Close containers that have been opened & keep upright to prevent leakage. Transfer only to approved containers with correct labeling. Store away from food & drink. Keep out of reach of children.

## SECTION 8—EXPOSURE CONTROLS / PERSONAL PROTECTION

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**8.1 Control Parameters:** Contains no substances with occupational exposure limit values.

### 8.2 Exposure Controls

- **Engineering Measures:** Technical measures & appropriate working operations should be given priority over the use of personal protective equipment. Use good ventilation. Local exhaust is preferred. See Section 7.1.
- **Individual Protection Measures:** Wear protective clothing to prevent repeated or prolonged contact with skin.
- **Hygiene Measures:** Have eyewash station and safety shower available. Wash hands thoroughly after use, before eating, drinking, smoking or using lavatory. Change contaminated clothing.
- **Eye / Face Protection:** Wear safety glasses with unperforated side shields or protective splash goggles.
- **Hand Protection:** Wear gloves impermeable to chemicals and oil. Breakthrough time of gloves should be greater than the intended use period.
- **Skin Protection:** Wear protective clothing. Wear protective boots if the situation requires.
- **Respiratory Protection:** Use approved air-purifying half-mask respirators if fresh air ventilation is not available.
- **Environmental Exposure Controls:** Do not empty into drains. See Section 6.



## SECTION 9—PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1 Information on Basic Physical and Chemical Properties

- **Appearance:** Clear, Almost Colorless Liquid
- **Odor:** Odorless
- **pH:** 11.0-12.0
- **Freezing Point:** <0°C (<32°F)
- **Boiling Point Range:** >100°C (>212°F)
- **Solubility in Water:** Soluble
- **Vapor Pressure:** Similar to Water
- **Vapor Density:** 0.6
- **Specific Gravity:** 1.4098 [calculated]
- **Density:** 1.40-1.41g/ml (11.72-11.81 lb/gal) [calculated]
- **Volatiles by Weight @21°C:** 50-70%

## SECTION 10—STABILITY AND REACTIVITY

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**10.1 Reactivity:** This product is stable under normal handling and use.

**10.2 Chemical Stability:** This product is stable under recommended storage and handling conditions.

**10.3 Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**10.4 Conditions to Avoid:** Temperature extremes

**10.5 Incompatible Materials:** Strong acids

**10.6 Hazardous Decomposition Products:** None known

## SECTION 11—TOXICOLOGICAL INFORMATION

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### 11.1 Information on Toxicological Effects

- **Acute Oral Toxicity:** May be harmful if swallowed
- **Skin irritation:** Causes skin irritation
- **Eye irritation:** Causes eye irritation
- **Acute Inhalation Toxicity:** Expected to have low acute inhalation toxicity

**11.2 Further Information:** No component of this product present at levels  $\geq 0.1\%$  threshold (de minimis) is identified as a probable, possible, potential or confirmed carcinogen by OSHA, IARC, ACGIH, or NTP.

## SECTION 12—ECOLOGICAL INFORMATION

- 12.1 Toxicity:** This product has low toxicity to aquatic life & the environment, however, large spills may increase risks.
- 12.2 Persistence & Degradability:** This is an inorganic substance and is not biodegradable.
- 12.3 Bioaccumulation Potential:** This product will not bioaccumulate.
- 12.4 Mobility in Soil:** There is no mobility in soil when mixed properly, however spills could result in higher mobility.
- 12.5 Results of PBT and vPvB Assessment:** No data available
- 12.6 Other Adverse Effects:** A hazard cannot be excluded in the event of unprofessional handling or disposal.

## SECTION 13—DISPOSAL CONSIDERATIONS

- 13.1 Waste Treatment Methods:** Dispose of in accordance with local & national regulations.  
**RCRA P-Series / RCRA U-Series:** No listings above the reportable threshold (de minimis).

## SECTION 14—TRANSPORT INFORMATION

**Note:** Transportation information provided is for reference only. Customer should consult 49 CFR 100-177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG manuals for detailed regulations and exceptions for specific container sizes, packaging materials and methods of shipping.

This product is not regulated for transport for: USA DOT (Ground Transport), ICAO/IATA (Air Transport), RID/ADR (Rail Transport) or IMO/MDG (Water Transport) - Consult IMO regulations before transporting ocean bulk.

## SECTION 15—REGULATORY INFORMATION

### 15.1 Safety, Health & Environmental Regulations / Legislation Specific for Mixture

#### U.S. Federal Regulations

**OSHA Hazard:** Causes skin & eye irritation (OSHA 29 CFR 1910-1200).

**TSCA Inventory:** All components are listed on TSCA Inventory. Not subject to TSCA 12(b) Export Notification.

**SARA 311/312 Hazard:** Acute health hazard - No components exceed threshold for SARA 313/302/304.

**Clean Air/Water Acts:** No hazards. No ozone depleters. No priority or toxic pollutants.

**U.S. State Regulations:** No components are listed on any State Hazardous Substance Inventories. Contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Outside of U.S.:** Canada WHMIS Hazard Classification-causes skin & eye irritation. Not listed on Canadian Nat'l Pollutant Release Inventory. Germany WGK (Water danger/protection)-Category 1 (Low hazard to waters).

## SECTION 16—OTHER INFORMATION

### Hazardous Material Info. System (HMIS)

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	C

#### HMIS Hazard Rating Legend

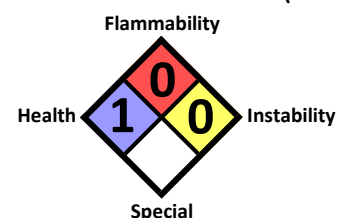
0 = Minimal 1 = Slight 2 = Moderate 3 = Serious  
4 = Severe \* = Chronic Health Hazard

C = Safety glasses/gloves/apron

#### NFPA Hazard Rating Legend

0 = Insignificant 1 = Slight 2 = Moderate  
3 = High 4 = Extreme

### National Fire Protection Assoc. (NFPA)



**DISCLAIMER OF RESPONSIBILITY:** The product data and safety information presented above is provided to assist our customers in assessing compliance with health, safety & environmental regulations. The information contained herein is based on data available to the manufacturer and is believed to be complete and accurate. The application of this product is not for a specific use or purpose and is under the exclusive control of the end-user. It is the obligation of the end-user to determine conditions are safe & applicable for using this product.

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