

SandLOCK

Sand & Soil Stabilization Polymer

2026

Gulf Elite Chemicals Factory

SAUDI MADE

1. Product Overview

Product: SandLOCK (GECSL)

Manufacturer: Gulf Elite Chemicals Factory

Trademark: Registered trademark of GULF ELITE CHEMICALS

SandLOCK is a locally produced, eco-friendly emulsion manufactured in Saudi Arabia by Gulf Elite Chemicals. Its unique formulation utilizes 100% Saudi raw materials to ensure high-quality performance. This environmentally safe solution is easy to apply by simply mixing with water.

Key Features:

- 100% Local Production - Manufactured entirely within Saudi Arabia
- Simple Application - Quick water-mixing and immediate spray process
- Eco-Friendly Formula - Safe for all local plants and animals
- Saudi Raw Materials - Proudly utilizes 100% domestic ingredients
- Environmentally Safe - Designed for sustainable and green projects
- Streamlined Process - Efficient application for large-scale operations

Applications:

- Sand & Soil stabilization
- Slope protection
- Service roads
- Pipeline sand berms
- Open areas erosion protection
- Road shoulders & embankments

2. Technical Data Sheet (TDS)

Property	Value
Type	High-performance acrylic copolymer emulsion
Appearance	Bluish White Emulsion
Solid Content	Maximum 50%
pH	7.5 - 9.5
Specific Gravity	1.06 +/-0.01
Particle Size	0.1 - 0.15 um
MFFT	11 +/-1 C
Film Properties	Clear & Glossy
Viscosity	Maximum 1500 CPS
Vapor Density (Air=1)	<1 Water
Melting Point	0C / 32F
Boiling Point	100C / 212F
Solubility in Water	Dilatable
Percent Volatility	57 to 69% Water

Chemical Composition:

Component	Percentage
Acrylic copolymer (Not Hazardous)	39-43%
Additives (Not Required)	<0.1%
Water (CAS 7732-18-5)	57-61%

Features:

- Good breathability
- Does not degrade under continuous UV exposure ensuring durability
- Gives a weather-resistant crust with improved durability
- Compatible with all kinds of soils

3. Storage & Handling

- Store in shaded areas when temperatures exceed 40C
- Maximum storage duration: 12 months
- Avoid prolonged exposure to direct sunlight
- For opened containers: maintain temperatures between 5C and 40C
- Keep from freezing (material may coagulate)
- Packaging: 1 cubic meter IBC (Intermediate Bulk Container)
- Shelf Life: 12 months from date of manufacturing (cool, dry, unopened)

Material Safety Data Sheet (MSDS)

1. Product Identification

- Product Name: SandLOCK polymer emulsion
- Product Code: GECSL
- Supplier: Gulf Elite Chemicals Factory
- Address: 6751, 36D street, Office 305, Al-Shulah area, Dammam 34265, SA
- Emergency Tel: 00966596888111
- Aramco CHB: CHB5736

2. Hazard Classification

- Physical Hazards: Not Classified
- Health: Inhalation - vapor/mist may cause headache, nausea, irritation
- Eye Contact: Direct contact may cause irritation
- Skin Contact: Prolonged/repeated contact may cause slight irritation
- Overall: Water-based and non-toxic under normal use conditions
- HMIS: Health 0-1 (Minimal-Slight) | Flammability 0 | Reactivity 0
- NFPA: Health 0 | Flammability 0 | Reactivity 0

3. First Aid Measures

Situation	Action
Inhalation	Move subject to fresh air
Eye Contact	Flush eyes with water. Consult physician if irritation persists
Skin Contact	Wash with soap and water. Remove contaminated clothes
Ingestion	Give 2 glasses of water. Consult physician

4. Fire-Fighting Measures

- Flash Point: Non-combustible
- Auto-ignition Temperature: Not Applicable
- Extinguishing Agents: Use media appropriate for surrounding fire

7. Toxicological Information

- Oral LD50 (Rat): >5000 mg/kg
- Dermal LD (Rabbit): >5000 mg/kg
- Skin Irritation (Rabbit): Practically non-irritating
- Aquatic Toxicity: Not classified as hazardous

8. Ecological Information

- Low potential for aquatic toxicity
- Forms inert, insoluble polymer matrix upon curing
- Not expected to bioaccumulate (high molecular weight)
- Low mobility in soil - binds tightly with soil particles
- Environmental Benefit: Reduces airborne dust pollution and prevents sediment runoff

9. Transport Information

- Not classified as dangerous goods for transport

- UN Number: Not Applicable
- HAZCHEM: None
- Aramco Label: CHB5736 - Non-hazardous

10. Disposal Considerations

- Dispose of in accordance with local regulations
- Do not empty into drains

5. Method of Statement

Purpose:

Stabilization of sand pipeline berms, open areas erosion protection, and sand stabilization

Reference Standards: SAES-A-114, SAES-L-450

Pre-Mixing Preparation:

- Verify manufacturing date
- Review MSDS documentation
- Proper storage per Gulf Elite standards
- Mixing water must NOT be saline
- If stored >10 days: mix with Handheld Mixer until homogeneous

Equipment Required:

- Mixing/Spraying Tank
- Hoses (1.5" / 2" flexible)
- Water Pump
- Spray Gun (multi-purpose 1.5")
- Leveling bar, Forklift, Cranes

Mixing Ratio: 1.0L SandLOCK concentrate : 9.0L Water

Spray Rate: Minimum 5 liters per m2 (diluted solution)

Application Conditions:

- Dry conditions before and during work
- No rain expected within 72 hours after application
- Wind speed not exceeding 35 km/h
- Temperature above 12C during and 72 hours after application
- Site not to be used for 72 hours after spraying (curing time)
- Inspect site after 3 days from spraying

Maintenance:

- Inspect crust after 12 months from application
- Re-spray damaged areas only
- Low-cost, lightweight maintenance

6. Self Declaration Certificate

- Confirmation Number: SD-23-000202
- Issue Date: 30/11/2023
- Product: Environmentally Friendly sand and soil stabilization polymer
- Trademark: SandLOCK
- Country of Origin: Saudi Arabia
- HS Code: 390591000000