

TERRALOCK® TECHNICAL DATA SHEET

Ultra-Pure Synthetic Dust Control Fluid

DESCRIPTION

TerraLock is a 100% Non-Petroleum Synthetic Fluid comprised of a complex mixture of synthetic linear, branched, and cyclic alkanes derived from natural gas through a Gas-to-Liquid (GTL) process.

APPLICATION

- Abate Dust | Dust Control Product | Fugitive Dust Control
- Air Quality Control | Dust Elimination | Dust Inhibitor
- Compaction Aid | Inhibit Dust | Mitigate Dust
- Control Desertification | Dust Mitigation | Particulate Control
- Control Dust | Dust Palliative | PM10 Control
- Control Particulates | Dust Pollution Control | PM2.5 Control
- Controlling Dust | Dust Pollution Prevention | Prevent Dust
- Desertification Control | Dust Prevention | Reduce Dust
- Desertification Prevention | Dust Reduction | Retard Dust
- Dune Stabilization | Dust Retardant | Soil Additive
- Dune Stabilizer | Dust Stabilization | Soil Amendment
- Dust Abatement | Dust Stabilizer | Stabilize Dunes
- Dust Binder | Dust Suppressant | Stabilize Dust
- Dust Control | Dust Suppression | Stop Dust
- Dust Control Agent | Eliminate Dust | Suppress Dust
- Dust Control Material | Fines Preservation | Wind Erosion Control

REFERENCE NUMBERS & PRODUCT CODES

Product Code: TL26G

Document ID: SDS2308009 | TerraLock TL26G Technical Data Sheet

Container Sizes: 275-gallon (1,041 Liter) Intermediate Bulk Container (IBC) Tote | 55-gallon (208 Liter) Drum | Bulk Tankers & Railcars

STORAGE & SAFETY

Storage: Keep the container tightly closed in a cool, well-ventilated place. Use properly labeled and closeable containers. Store at ambient temperature.

Safety: TerraLock is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained. Guidance on Health and Safety is available on the appropriate Safety Data Sheet (SDS), which can be obtained directly from GeoCHEM, Inc.

PHYSICAL & CHEMICAL PROPERTIES

Property	Result	Testing Standard
Active Ingredients	100%	CG-MS
Aniline Point	234°F (112°C)	ASTM D611
Appearance	Liquid at room temperature	Visual
API Gravity (Digital Density Meter)	43.6	Digital Meter
Aromatic Hydrocarbons	0%	CG-MS
Ash Content	<0.01% (None Detected)	ASTM D482
Auto Ignition Temperature	>605°F (>318°C)	ASTM
Binder Content	100%	CG-MS
Boiling Point	464°F (240°C)	ASTM D3321
Cloud Point	-22°F (-30°C)	ASTM D2500
Color	<1 (None. Colorless, clear, and bright)	ASTM D1500
Combustion Heat	18,879 BTU/lb. (44 MJ/kg) (10,488 cal/g)	ASTM D240
Conductivity	0 pS/m @ 73°F (23°C) (Not static accumulator)	ASTM D2624
Density	6.7264 lb./gal (806 kg/m³) @ 59°F (15°C)	ASTM D4052
Dielectric Strength	46 MV/m	ASTM D877
Flammability (Liquids)	NOT classified as flammable but will burn	OSHA / GHS
Flash Point (Open Cup)	394°F (201°C)	ASTM D92 COC
Flash Point (Closed Cup)	383°F (195°C)	ASTM D93 PMCC
Freeze Point	None Detected	ASTM D2386
Inactive Ingredients	0%	CG-MS
Naphthenics	None Detected	CG-MS
Nitrogen	0%	CG-MS
Octanol/Water Partition Coefficient	>6 log Pow	OECD
Odor	None, Odorless	Sensoric
Oil Sheen	None. Oil sheen free	Visual
Olefins	None Detected	CG-MS
Oxidation	None Detected	ASTM D7414
Pentane Insolubles	<0.01% (None Detected)	ASTM D893
pH	Not applicable. Not an aqueous solution	N/A
Physical Form	Liquid, Synthetic Fluid	Visual
Polycyclic Aromatics (PAH)	None Detected	CG-MS

Pour Point	-60°F (-51°C)	ASTM D97
Refractive Index	1.45 @ 68°F (20°C)	ASTM D1218
Relative Density	0.808 @ 60°F (16°C)	ASTM D4052
Specific Gravity	0.808 @ 60°F (16°C)	ASTM D4052
Sulfur	0%	CG-MS
Vapor Density	>5 (Air = 1)	Calculated
Vapor Pressure	<0.5 Pa @ 68°F (20°C) estimated	Calculated
Viscosity Index	106	ASTM D2270
Viscosity, Kinematic	9.81 cSt @ 104°F (40°C) / 2.66 cSt @ 212°F (100°C)	ASTM D445
Viscosity, Kinematic (ISO)	18 cSt @ 68°F (20°C)	ISO 3104
Water Content	None Detected	ASTM D6304
Water Solubility	Insoluble	N/A

PACKAGING & LOGISTICS SPECIFICATIONS

Container Description	Maximum Volume	Dimensions (L x W x H)*	Gross Weight*
55 Gallon Drum	55 gal (208 L)	24" x 24" x 36" (61x61x91 cm)	400 lbs. (182 kgs)
275 Gallon IBC Tote	275 gal (1,041 L)	40" x 48" x 46" (100x120x117 cm)	2,025 lbs. (919 kgs)
Bulk Tankers	6,700 gal (25,362 L)	Variable Tanker Spec	45,091 lbs. (20,453 kgs)
53' Box Van (104 Drums / 26 Pallets)	5,720 gal (24,605 L)	53' Enclosed Van	42,510 lbs. (19,282 kgs)
53' Box Van (22 IBC Totes)	6,050 gal (22,902 L)	53' Enclosed Van	44,550 lbs. (20,208 kgs)
48' Flatbed (112 Drums / 28 Pallets)	6,160 gal (23,318 L)	48' Flatbed Trailer	45,780 lbs. (20,766 kgs)
48' Flatbed (23 IBC Totes)	6,325 gal (23,943 L)	48' Flatbed Trailer	46,575 lbs. (21,126 kgs)
20' Ocean Container (40 Drums)	2,200 gal (8,328 L)	20' ISO Container	21,350 lbs. (9,684 kgs)
20' Ocean Container (18 IBC Totes)	4,950 gal (18,738 L)	20' ISO Container	36,450 lbs. (16,534 kgs)
Bulk Railcars	23,000 gal (87,064 L)	Railcar Tank Specification	161,000 lbs. (73,028 kgs)
Bulk Jumbo Railcars	25,500 gal (96,528 L)	Jumbo Railcar Tank Spec	178,500 lbs. (80,966 kgs)

FEATURES & BENEFITS

- **Non-Hazardous & Non-Toxic:** Human, Animal, Marine Life & Vegetation Safe
- **Simple & Easy to Apply:** Colorless Crystal Clear Synthetic Fluid
- **Odorless Performance:** Non-Flammable & Non-Volatile Formulation
- **Non-Corrosive & Equipment Safe:** Actively Re-workable & Self-Healing Performance
- **Non-Slippery Safety:** Safe to Drive on Once Penetrated into Soil
- **No Curing Required:** Provides Immediate Dust Control Results
- **All-Weather Application:** Can be Applied in Freezing Conditions
- **Pure Chemical Composition:** Carboxylic Acid, Fatty Acid, & Polyolefin Free
- **Non-Tracking & Non-Transferable:** 100% Ultra-Pure Active Ingredients
- **100% UV Resistant:** Ultraviolet Ray Resistant for Long-Term Durability
- **Non-Regulated Transport:** Scientifically Formulated from Natural Gas (GTL)
- **Environmental Compliance:** Ecologically Safe, PM10 & PM2.5 Compliant