

POWDERED SOILTAC[®] SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION

PRODUCT NAME Powdered Soiltac[®]
Soil Stabilizer & Dust Control Agent

CHEMICAL FAMILY Synthetic Copolymer

MANUFACTURER **Soilworks[®], LLC** – Soil Stabilization & Dust Control
7580 N Dobson Rd, Ste 320
Scottsdale, Arizona 85256 USA
(800) 545-5420 USA
+1 (480) 545-5454 International
info@soilworks.com
www.soilworks.com

EMERGENCY PHONE NUMBERS (800) 545-5420 USA
+1 (480) 545-5454 International

U.S. DATA UNIVERSAL NUMBERING SYSTEM (DUNS NUMBER)
Soilworks, LLC 131946159

U.S. DEPARTMENT OF DEFENSE COMMERCIAL AND GOVERNMENT ENTITY CODE (CAGE CODE)
Soilworks, LLC 3FTH5

U.S. DEPARTMENT OF DEFENSE NATIONAL STOCK NUMBERS (NSN)

Part Description	NSN #
55 lb, (25 kg) Bag	6850-01-560--5408

U.S. GENERAL SERVICES ADMINISTRATION (GSA) CONTRACT
Soilworks, LLC GS-07F-5364P October 31, 2018

SYNONYMS/OTHER MEANS OF IDENTIFICATION
Soiltac is a formulated, high molecular weight, engineered, prime synthetic copolymer.

INTENDED USES
For industrial use only. Major industries include construction, mining, military, municipal, oil & gas, energy & renewable energy and transportation.

Abate dust, air quality control, control dust, controlling dust, desertification prevention, dune stabilization, dust abatement, dust control, dust control agent, dust control material, dust control product, dust elimination, dust inhibitor, dust mitigation, dust palliative, dust pollution control, dust pollution prevention, dust prevention, dust reduction, dust retardant, dust stabilization, dust stabilizer, dust suppressant, dust suppression, eliminate dust, erosion control, erosion control material, erosion control product, erosion prevention, fines preservation, fugitive dust control, hydromulch tackifier, hydroseed tackifier, inhibit dust, mitigate dust, pm10 control, pm2.5 control, prevent dust, reduce dust, retard dust, road stabilization, road stabilizer, sand stabilization, soil additive, soil amendment, soil binder, soil crusting agent, soil solidifier, soil stabilization, soil stabilizer, stabilize dust, stabilize soil, stockpile capping, stop dust, suppress dust, surface wear course, wind erosion control.

SECTION 2 – HAZARDS IDENTIFICATION

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS)

Not a hazardous substance or mixture. Risk of dust explosion. Signal Word: Warning

Classification(GHS)		
Class	Category	Route of Exposure
Combustible Dust	None	

Labeling (GHS)	
H-Code	Hazard Statement
None	May form dust concentrations in the air

U.S. HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) RATING

Health	1	Slight Hazard
Flammability	1	Slight Hazard
Physical Hazard	0	Stable, non-reactive and non-explosive
Personal Protection	-	No special hazard under normal use

SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS

This material does NOT contain hazardous ingredients and is NOT considered hazardous according to OSHA criteria.

#	COMPONENT	%	CAS Number
1.	Synthetic Vinyl Copolymer	98%	Non-Hazardous
2.	Anticaking Minerals	2%	Non-Hazardous

BYPRODUCT / RECYCLED CONTENT

None

SECTION 4 – FIRST-AID MEASURES

Provide medical care provider with this Safety Data Sheet.

EYE CONTACT

If irritation or redness develops from exposure, flush eyes with clean water. If irritation persists, seek medical attention.

SKIN CONTACT

No treatment necessary under normal conditions of use. Wash affected area with mild soap and water. If irritation or redness develops and persists, seek medical attention.

INHALATION

No treatment necessary under normal conditions of use. If breathing difficulties develop move victim away from source of exposure and into fresh air in a position comfortable for breathing. If symptoms persist, seek medical attention.

INGESTION

If swallowed do not induce vomiting. If conscious, give several glasses of water. If symptoms persist, seek medical attention.

SECTION 5 – FIRE-FIGHTING MEASURES

FLAMMABILITY

Dust may form explosive mixture with air. Electrostatic charging is possible.

Property	Value
Lower Explosion Limit (LEL)	30 g/m ³

FLASH POINT

Not Applicable

EXTINGUISHING MEDIA

Use water spray, water mist, foam, dry chemical or carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES & PROTECTIVE EQUIPMENT

Do not use sharp water jet extinguishing media. Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

PROTECTIVE MEASURES

Avoid dust formation. Do not breathe dust. Avoid contact with skin and eyes. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches, sewers, rivers or open bodies of water by using sand, earth or other appropriate barriers. HAZPOWER PPE Level: D

CLEAN-UP METHODS

Cover any spilled material in accordance with regulations to prevent dispersal by wind. Avoid accidents, clean up immediately. Take up mechanically and dispose of according to local/state/federal regulations. Eliminate all sources of ignition. Observe notes under section 7.

ADDITIONAL ADVICE

Local authorities should be advised if significant spillages cannot be contained.

SECTION 7 - HANDLING AND STORAGE

GENERAL PRECAUTIONS

Avoid formation of dust - dust may form explosive mixture with air. Avoid dust deposit, remove dust regularly. Take precautionary measures against electrostatic charging. Keep away from open flames, heat and sparks. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

STORAGE

Observe precautionary measures against dust explosion. Keep container closed in a cool, well-ventilated place. Use properly labelled and closeable containers. Do not double stack pallets of bags or bulk super sacks.

HANDLING

Avoid dust formation. Increased risk of slipping if substance comes into contact with water.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

Maximum Airborne Concentrations at the Workplace:				
CAS No.	Material	Type	mg/m ³	Dust Fraction
	Particulates not otherwise classified (insoluble or poorly soluble)	OSHA PEL	15.0	Inhalable dust/mist
	Particulates not otherwise classified (insoluble or poorly soluble)	OSHA PEL	5.0	Respirable dust/mist
1332-58-7	Kaolin	OSHA PEL	15.0	Inhalable dust/mist
1332-58-7	Kaolin	OSHA PEL	5.0	Respirable dust/mist
1317-65-3	Calcium carbonate	OSHA PEL	15.0	Inhalable dust/mist
1317-65-3	Calcium carbonate	OSHA PEL	5.0	Respirable dust/mist
	Particulates not otherwise classified (insoluble or poorly soluble)	ACGIH TWA	10.0	Inhalable dust/mist
	Particulates not otherwise classified (insoluble or poorly soluble)	ACGIH TWA	3.0	Respirable dust/mist
1332-58-7	Kaolin	ACGIH TWA	2.0	Respirable dust/mist

Particulates not otherwise classified: The value is for particulate matter containing no asbestos and < 1% crystalline silica (ACGIH). Kaolin: The value is for particulate matter containing no asbestos and < 1% crystalline silica (ACGIH).

EXPOSURE CONTROLS

Use with adequate ventilation to maintain concentration below TLV. The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations. Avoid contact with skin. Avoid breathing dust/vapor/mist/gas/aerosol. Do not eat, drink or smoke when handling. Follow standard industrial hygiene practices when using this material. Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

RESPIRATORY PROTECTION

Respiratory protection is NOT required under normal conditions of use in a well-ventilated workplace. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select a NIOSH approved air purifying respirator equipped with universal multi-contaminant, multi-gas/vapor cartridges and at least P-99 solid/aerosol particulate filters if overexposure to dusts, mists, or vapors could occur.

HAND PROTECTION

Where hand contact with the material may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed with soap and water and dried thoroughly.

EYE PROTECTION

Eye protection is NOT required under normal conditions of use. If material is handled such that it could be blown into eyes, wear splash-proof safety goggles.

PROTECTIVE CLOTHING

Skin protection is NOT required under normal conditions of use or for single, short duration exposures. For prolonged or repeated exposures, use impervious chemical resistant boots, gloves and/or aprons over parts of the body subject to exposure.

MONITORING METHODS

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Auto-Ignition Temperature	235 °C (455 °F) sample volume: 400 cm ³
Boiling Point	Not Applicable
Boiling point / boiling range	Not Applicable
Bulk Density	450 - 600 kg/m ³
Burning Behavior	5 at 20 °C (68 °F)
Color	White to Light Beige
Dust Explosion Class	1
Flash Point	Not Applicable
Glow Temperature	> 400 °C (> 752 °F)
Ignition Temperature	470 °C (878 °F)
Kst Value	89 m*bar/sec
Maximum Explosion Pressure	7.3 bar
Median Particle Size	42 µm (screened according to German VDI)
Median Particle Size	80 µm (original)
Melting point / melting range	Not Applicable
Minimum Ignition Energy	>1,000 mJ without inductance (sieved < 63 µm)
Odor	Odorless
pH-Value	Approx. 7 at 20 °C (68 °F) (500 g/l H ₂ O)
Physical state / form	Solid - Powder
Thermal Decomposition	> 250 °C (> 482 °F)
Vapor Pressure	Not Applicable
Viscosity (Dynamic)	Not Applicable
Water Solubility / Miscibility	Moderately Soluble at 20 °C (68 °F)

Product forms dispersions with water. The tests on the raised dust were determined in accordance with German VDI 2263, Sheet 1, on the screened product.

SECTION 10- STABILITY AND REACTIVITY

CHEMICAL STABILITY

If stored and handled in accordance with standard industrial practices no hazardous reactions are known

CONDITIONS TO AVOID

None known.

HAZARDOUS REACTIONS

Hazardous polymerization cannot occur.

HAZARDOUS DECOMPOSITION

Hazardous decomposition products are NOT expected to form during normal storage.

CORROSIVITY

Non-corrosive.

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicological data obtained from liquid concentrate at approximately 55% solids dispersion.

CARCINOGENICITY

Components ≥0.1% are NOT known to be associated with carcinogenic effects.

ACGIH	American Conference of Governmental Industrial Hygienists	Not listed as carcinogenic
IARC	World Health Organization International Agency for Research on Cancer	Not listed as carcinogenic
NTP	U.S. National Toxicology Program	Not listed as carcinogenic
OSHA	U.S. Occupational Safety and Health Administration	Not listed as carcinogenic
Prop 65	California Office of Environmental Health Hazard Assessment Proposition 65	Not listed as carcinogenic

REPRODUCTIVE AND DEVELOPMENTAL TOXICITY

NOT expected to be a hazard.

DIOXINS & FURANS (PCDD's / PCDF's)

None Detected – QC066-97, GC-MS

METALS

None Detected – EPA 6020 & 3050

POLYCHLORINATED BIPHENYL (PCBs) **AROCLORS**

None Detected – EPA 8082

POLYCYCLIC AROMATIC HYDROCARBONS (PAH's)

None Detected – EPA 3510, GC-MS

SEMI-VOLATILE ORGANIC COMPOUNDS (SVOC)

None Detected - EPA 8270, GC-MS

VOLATILE ORGANIC COMPOUNDS

None Detected – EPA 8260, GC-MS

SECTION 12 - ECOLOGICAL INFORMATION

Based on EPA guidelines, this material is classified as practically non-toxic to all species. When used and applied properly, this material is not known to pose any ecological problems. Ecological data obtained from liquid concentrate at approximately 55% solids dispersion.

AQUATIC TOXICITY

Bacterium	Aliivibrio fischeri	15 minute	IC ₅₀	>6,200 mg/L
Fathead Minnow	Pimephales promelas	7 day	IC ₅₀	>95,000 mg/L
Fathead Minnow	Pimephales promelas	7 day	LC ₅₀	>240,000 mg/L
Fathead Minnow	Pimephales promelas	96 hour	LC ₅₀	>1,200 mg/L
Microalga	Pseudokirchneriella subcapitata	96 hour	IC ₅₀	>250,000 mg/L
Microalga	Pseudokirchneriella subcapitata	96 hour	LC ₅₀	>1,000 mg/L
Rainbow Trout	Oncorhynchus mykiss	96 hour	LC ₅₀	>1,000 mg/L
Water Flea	Daphnia magna	48 hour	LC ₅₀	>175,000 mg/L

TERRESTRIAL TOXICITY

Earthworm	Eisenia andrei	14 day	LC ₅₀	>1,000,000 mg/L
Lettuce	Root elongation	120 hour	EC ₅₀	>1,000,000 mg/L
Lettuce	Seed germination	120 hour	LC ₅₀	>1,000,000 mg/L

OTHER ADVERSE EFFECTS

The material contains non-volatile components, which are NOT expected to be released to air in any significant quantities. The material is NOT expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

SECTION 13 - DISPOSAL CONSIDERATIONS

MATERIAL DISPOSAL

Recover or recycle if possible. Do NOT dispose into the environment, in drains or in water courses. To the best of our knowledge, this material does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.

CONTAINER DISPOSAL

Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand.

LOCAL LEGISLATION

Dispose in accordance with applicable regional, national and local laws and regulations.

SECTION 14 - TRANSPORT INFORMATION

NOT dangerous goods.

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

NOT regulated. This material is NOT subject to DOT regulations under 49 CFR Parts 171-180.

INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)

NOT regulated. This material is NOT classified as dangerous under IMDG regulations.

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA)

NOT regulated. This material is either NOT classified as dangerous under IATA regulations or needs to follow country specific requirements.

SECTION 15 - REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

U.S. FEDERAL REGULATIONS

EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA)

This material does NOT contain any chemicals with U.S. EPA CERCLA reportable quantities.

EPA SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA)

This material does NOT contain any chemicals with SARA reportable quantities.

EPA TOXIC SUBSTANCES CONTROL ACT (TSCA)

All components listed or in compliance with the inventory.

EPA CERCLA/SARA SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES AND TPQS

This material does NOT contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.

EPA CERCLA/SARA SECTION 311/312 (TITLE III HAZARD CATEGORIES)

Acute Health: No
Chronic Health: No
Fire Hazard: No
Pressure Hazard: No
Reactive Hazard: No

EPA CERCLA/SARA SECTION 313 AND 40 CFR 372

This material does NOT contain any chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372.

CLEAN AIR ACT (CAA)

This material does NOT contain any hazardous air pollutants (HAP, as defined by the CAA Section 12 (40 CFR 61).

CANADIAN REGULATIONS

This material has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the regulations.

CANADIAN DOMESTIC SUBSTANCES LIST (DSL)

All components listed or in compliance with the inventory.

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

None. This material is NOT a controlled material under the Canadian WHMIS.

BUREAU DE NORMALIZATION DU QUÉBEC (BNQ)

Soiltac conformed as a dust control agent for non-asphalted roads and other similar surfaces.

Certificate of Conformity: 2014-08-06 – 2015-06-30
Certificate #: 1743
Standard #: BNQ 2410-300/2009-10-01
Certification Protocol #: BNQ 2410-900/2010-01-12

INVENTORY REGULATIONS

Australia	AICS	All components listed or in compliance with the inventory.
Canada	DSL/NDSL	All components listed or in compliance with the inventory.
European Economic Area (EEA)	REACH	All components listed or in compliance with the inventory.
Japan	ENCS	All components listed or in compliance with the inventory.
Korea	ECL	All components listed or in compliance with the inventory.
Philippines	PICCS	All components listed or in compliance with the inventory.
Taiwan	TCSI	All components listed or in compliance with the inventory.
United States	TSCA	All components listed or in compliance with the inventory.

General note: Taiwan REACH requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation. The registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.

INVENTORIES LEGEND

AICS	Australian Inventory of Chemical Substances
DSL	Canadian Domestic Substances List
ENCS	Japanese Existing and New Chemical Substances
ECL	Korea Existing Chemicals List
NDSL	Canadian Non-Domestic Substances List
PICCS	Philippine Inventory of Chemicals and Chemical Substances
TSCA	Toxic Substances Control Act
TCSI	Taiwan Chemical Substance Inventory
REACH	Regulation (EC) No 1907/2006

SECTION 16 – OTHER INFORMATION

SDS VERSION NUMBER 1.1

SDS EFFECTIVE DATE 08/07/2017

SDS REGULATIONS

The content and format of this SDS is in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SDS DISTRIBUTION

The information in this document should be made available to all who may handle the material.

DISCLAIMER

The information presented in this Safety Data Sheet is based on data believed to be accurate as of the date this Safety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE MATERIAL, THE SAFETY OF THIS MATERIAL, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the material, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the material for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.