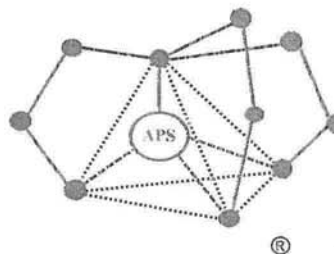


Applied Polymer Systems, Inc.



Safety Data Sheet

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product Name: APS 705 Silt Stop

Supplied: Applied Polymer Systems, Inc. Tel. 678-494-5998
 519 Industrial Drive Fax. 678-494-5298
 Woodstock, GA 30189 www.siltstop.com

2. HAZARD IDENTIFICATION

Aqueous solutions or powders that become wet render surfaces extremely slippery.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation: Anionic water-soluble Co-polymer

4. FIRST AID MEASURES

Inhalation: Move to fresh air. Use dust mask when handling.

Skin contact: Contact with wet skin could cause chapping and dryness. Wash with water and soap. In case of persistent skin irritation, consult a physician.

Eye contact: Rinse thoroughly with plenty of water, also under the eyelids; seek medical attention in case of persistent irritation.

Ingestion: Consult a physician

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water, water spray, foam, carbon dioxide, dry powder.

Special fire-fighting precautions: Aqueous solutions or powders that become wet render surfaces extremely slippery.

Protective equipment for firefighters: No special equipment required.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: No special precautions required.

Methods for cleaning up: Do Not flush with water. Clean up promptly by sweeping or vacuum. Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Avoid dust formation. Do not breath dust. Use dust mask during handling. Wash hands after handling.

Storage: Keep in a cool, dry place. (0-30° C)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dust.
<u>Personal protection equipment</u>	
Respiratory Protection:	Dust safety masks are recommended where dusting may occur.
Hand protection:	Dry cloth, leather or rubber gloves.
Eye Protection:	Safety glasses with side shields or face masks. Do not wear contact lenses.
Skin protection:	No special protective clothing required.
Hygiene measures:	Wash hands before breaks and at end of work day.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Granular solid
Color:	White
Odor:	None
pH:	7-8
Melting point:	N/A
Flash point:	N/A
Vapor density:	N/A

10. STABILITY AND REACTIVITY

Stability:	Product is stable, no hazardous polymerization will occur.
Materials to avoid:	Oxidizing agents may cause exothermic reactions.
Hazardous decomposition products:	Thermal decomposition may produce nitrogen oxides (NOx), carbon oxides.

11. TOXICOLOGICAL INFORMATION

<u>Acute toxicity:</u>	(EPA/600/4-90/027F)
	LD 50 / <i>Rattus norvegicus</i> / oral / > 5000 mg/kg
	LC 50 / <i>Oncorhynchus mykiss</i> / 96h / 530 mg/L
	LC 50 / <i>Daphnia magna</i> / 48h / >420mg/L
	EC 50 / <i>Selenastrum capricornutum</i> / 96h / >500mg/L

12. ECOLOGICAL INFORMATION

<u>Chronic Toxicity :</u>	(EPA/600/R-98/182)
	IC ₂₅ (Survival) / <i>P. promelas</i> / 7 day / 358 ppm
	NOEC (Survival) / <i>P. promelas</i> / 7 day / 840 ppm
	IC ₂₅ (Survival) / <i>C. dubia</i> / 7 day / 157.5 ppm
	NOEC (Survival) / <i>C. dubia</i> / 7 day / 105 ppm
	IC ₂₅ (Growth) / <i>P. promelas</i> / 7 day / 94 ppm
	NOEC (Growth) / <i>P. promelas</i> / 7 day / 105 ppm
	IC ₂₅ (Reproduction) / <i>C. dubia</i> / 7 day / 27.7 ppm
	NOEC (Reproduction) / <i>C. dubia</i> / 7 day / 26.25 ppm
Inhalation:	The product is not expected to be toxic by inhalation.
Dermal:	The results of testing on rabbits showed no toxicity even at high dose levels.
Bioaccumulation:	The product is not expected to bioaccumulate.
Persistence / degradability:	Not readily biodegradable: (~40% after 28 days).
Chronic toxicity:	A 2 yr feeding study on rats did not reveal adverse health effects.

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused products.
Any disposal practice must be in compliance with local, state and federal laws and regulations (contact local or state environmental agency for specific rules).

14. TRANSPORT INFORMATION

Not regulated by DOT, RCRA status-Not a hazardous waste

15. REGULATORY INFORMATION

TSCA Chemical Substances Inventory: All components of this product are either listed on the inventory or are exempt from listing.

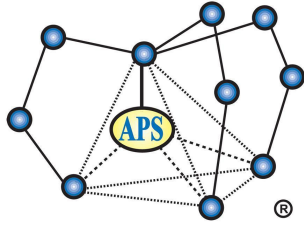
SARA Section 311 / 312 Hazard Class: Not concerned
RCRA Status: Not RCRA hazardous

16. TRANSPORT AND REGULATORY INFORMATION

NFPA and HMIS ratings:

NFPA	Health:	1	Flammability:	1	Reactivity:	0
HMIS	Health	1	Flammability	1	Reactivity	0

DATE EDITED: Oct. 29th 2015



Applied Polymer Systems

519 Industrial Drive, Woodstock, GA 30189

www.siltstop.com

APS 700 Series Silt Stop® Polyacrylamide Erosion Control Powder

APS 700 Series Silt Stop® is a group of soil specific tailored polyacrylamide co-polymer powders for erosion control. They reduce and prevent erosion of fine particles and colloidal clays from soil into stormwater.

Primary Applications

- Mine Tailings and Waste Piles
- Newly cleared Construction or Building Sites
- Road and Highway construction
- Hydroseeding and Water Truck application
- Hand spreading and Ditch placement

Features and Benefits

- Removes solubilized soils and clay from water
- Prevents colloidal solutions in water when applied to the soil surface
- Will reduce soil movement during rain event on moderate slopes
- Binds cationic metals within the soil matrix, reducing solubilization
- Reduces pesticide and fertilizer loss during rain events
- Reduces wind borne dust conditions
- Increases soil permeability and water penetration to shallow plants
- Reduces operational and cleanup costs
- Reduces environmental risk and compliance

Specifications / Compliances

- ANSI/NSF Standard 60 Drinking water treatment chemicals
- 48h or 96h Acute Toxicity Tests (*D. magna*, *P. promelas*, or *O. mykiss*)
- 7 day Chronic Toxicity Tests (*P. promelas* or *C. dubia*)

Packaging

APS 700 Series Silt Stop® is packaged in 50 pound bags

Technical Information

Appearance: White granular powder

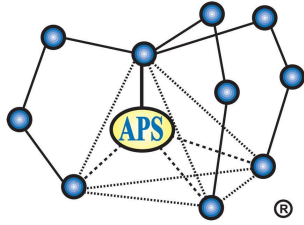
Bulk Density: 40-50 lbs./cubic foot

Percent Moisture: 15% maximum

pH 0.5% solution :6-8

Shelf Life: up to 5 years

Note: Dosage-application rates are determined on soil specific testing. Soil polymers and blends should never be used without testing the soil first. Consult your local distributor or send your samples to Applied Polymer Systems, Inc.



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Coverage

Soft Armoring application rate (per acre coverage): varies by soil content and grade of slope.

Hydroseeding application rate (per acre coverage): varies by soil content and grade of slope.

Gentle to Moderate slopes (0 to 4H:1V)

High Clay Content: 10-20 # powder

High Sand Content: 25-50 # powder

Steep slopes (3H:1V to 1H:1V)

High Clay Content: 20-35 # powder

High Sand Content: 45-50 # powder

Gentle to Moderate slopes (0 to 4H:1V)

High Clay Content: 10-20 # powder/ 3000 gallons/ acre

High Sand Content: 25-50 # powder/ 3000 gallons/ acre

Steep slopes (3H:1V to 1H:1V)

High Clay Content: 20-35 # powder/ 3000 gallons/ acre

High Sand Content: 40-50 # powder/ 3000 gallons/ acre

Directions for Use

Dry Form - APS Silt Stop® Powder may be applied by hand spreader, mechanical disc, or hand sowing. Slope or ditch application may require artificial support such as straw, or wood fiber mulch to reduce down slope movement. Areas of high water velocity will require benching or tier structuring to reduce velocity. Sheet flow applications are best. APS Silt Stop® Powder may be mixed with dry silica sand to aid in spreading. Ratios of sand to powder will vary in accordance with the type of spreading device used.

Liquid Form - APS Silt Stop® Powder may be applied with hydroseeders, water trucks or other spraying devices. All spraying devices must have a mechanical agitator or mixing apparatus or hydraulic recirculation. **Caution - Do Not** mix powder into a spraying device that does not contain a mixing apparatus.

Mixing - Sprinkle powder into the water with the mixing apparatus operating as the last material to be added to the mix. Three to Five minutes of mixing will be required after the powder is sprinkled into the water. **ADD THE POWDER SLOWLY**-adding the powder to fast will result in clumping resulting in poor performance.

Longer mixing times will create high viscosity solutions possibly causing some types of spray equipment to undergo cavitations.

Caution - Do Not exceed 8 lbs / 1500 gallons as viscosity of the water may damage spraying equipment. (This will treat ½ acre)

Clean-up

Spilled powder should be cleaned up dry as best as possible using broom or vacuum. Extreme slippery conditions will result. In event of skin contact, wash power from skin as soon as possible using soap and water.

Precautions / Limitations

- Prevent inhalation of the powder, use adequate dust mask.
- Clean up spills quickly. Do not use water unless necessary, extremely slippery conditions will result.
- Do not add water to the APS Silt Stop® Powder; add the powder (sprinkle) to the water slowly.
- APS Silt Stop® Powder will remain viable on the soil surface for 60-90 days. Longer viability will occur when applied powder is covered with straw or wood fiber mulch.
- APS 700 Series Silt Stop® powders have been specifically tailored to specific soil types. Soil types in varying geographical areas may require testing. If proper performance of this product is not satisfactory, contact Applied Polymer Systems.