

Educational Innovations

MEMBER: 



MSDS MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION	TRADEMARK	SOIL MOIST™	Water retention aid
	CAS#	71042-87-0	
	SYNONYMS	None	
	CHEMICAL FAMILY	Crosslinked modified acrylic polymer	
	MOLECULAR FORMULA	Polymer	
	MOLECULAR WGT.	Polymer	
WARNING	SPILLS ARE SLIPPERY WHEN WET		
INGREDIENTS	SOIL MOIST contains polymer. No permissible exposure limits have been established.		
HEALTH INFORMATION	SOIL MOIST is a chemically neutral material. Prevent dust escape in the air, DO NOT breathe dust. A NIOSH, approved respirator for nuisance dust should be worn. After use, in horticulture work, normal hygienic practice should be followed.		
FIRE AND EXPLOSION	FLASH POINT	Not Applicable	
HAZARD INFORMATION	FLAMMABLE LIMITS	Not Applicable	
	FIRE FIGHTING	Use water, carbon dioxide or dry chemicals to extinguish fires. Wear self-contained, positive pressure breathing apparatus and full fire fighting protective clothing. Dust may be explosive if mixed with air in critical proportions and in the presence of a source of ignition.	
REACTIVITY DATA	STABILITY	Stable	
	CONDITIONS TO AVOID	None Known	
	POLYMERIZATION	Will Not Occur	
	CONDITIONS TO AVOID	None Known	
	INCOMPATIBLE MATERIALS	Strong oxidizing agents	
	HAZARDOUS DECOMPOSITION PRODUCTS	Thermal decomposition or combustion may produce carbon monoxide and/or oxides of nitrogen	
PHYSICAL PROPERTIES	APPEARANCE AND ODOR	Granular free flowing white material with typical odor	
	BOILING POINT	Not Applicable	
	MELTING POINT	Not Applicable	
	VAPOR PRESSURE	Not Applicable	
	SPECIFIC GRAVITY	Not Applicable	
	VAPOR DENSITY	Not Applicable	
	% VOLATILES	Approx. 4-10 % (H ₂ O)	
	pH	Not Applicable	
	SOLUBILITY IN WATER	Swells (does not dissolve). pH of aqueous system approx. 6.4 - 7.0	
SPILL PROCEDURES	Spilled material is slippery when wet. Remove sources of ignition. Sweep up spills and place in a waste disposal container. Disposal must be made in accordance with applicable governmental regulations.		
SPECIAL PRECAUTIONS	Maintain good housekeeping to control dust accumulations. DO NOT ALLOW MATERIAL TO ENTER DRAINS.		

NOTE: This information is given without any warranty or representation. We do not assume any legal responsibility for same. It is offered solely for your consideration, investigation and verification. Before using any product read its label.

TECHNICAL DATA

SOIL MOIST™

Material:	Crosslinked Modified Acrylic Polymer
Granular Size:	1-2 mm (small granular), 2-4 mm (coarse granular)
Density (gr/ml):	.729
Absorption (gr/gr)	
Deionized Water	418
*Tap Water	238
**Fertilizer Solution	216
Specific Gravity	1.07

Time to achieve 50% Absorption: 19 minutes

Time to achieve 100% Absorption: 56 minutes

SOIL MOIST™ FINES

Material:	Crosslinked Modified Acrylic Polymer
Granular Size:	0.05 - 0.5 mm
Density (gr/ml):	.902
Absorption	
Deionized Water	334-350
*Tap Water	115-130
Specific Gravity	1.08

Time to achieve 50% Absorption: 14 minutes

Time to achieve 100% Absorption: 40 minutes

*Salt as NaCl, tap water rated at 160 mg/l

**Fertilizer Solution Contains 210 ppm - 220 ppm of Nitrogen

Soil Moist Hydro 0.1 - 0.7 mm

Soil Moist Seed Coat 0.05 - 0.5 mm Graphite Coated