

MSDS
MATERIAL SAFETY DATA SHEET
EnviroPam

Date: 11/08/10
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CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Information:

Innovative Turf Solutions

3318 Glenmont Lane

Cincinnati, OH 45248

513.317.8311

www.innovativeturfsolutions.com

Product Name
Chemical Family
Emergency Telephone

ENVIROPAM

Linear anionic water soluble polymer
216-475-8488

HAZARDOUS INGREDIENTS

HMIS Rating
H1
F1
R O

FIRST AID

Skin	Wash with warm soapy water after use.
Eye contact	Immediately flush with water. If irritation continues, consult a physician.
Inhalation	If dust is present, do not breathe. Move to open air with fresh air.
Ingestion	Do not give any medication unless specified by a physician.

FIRE FIGHTING MEASURES

Flash Point	N/A
LEL	N/A
EUL	N/A
Extinguishing Media	Use water, carbon dioxide, foam.
Special precautions	Material is slippery when wet
Special Protective Equipment	None

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ACCIDENTAL RELEASE

Spilled material is very slippery when wet. Do not initially flush with water. Sweep up spills and place in airtight container for disposal. Flush area thoroughly with water, scrub and remove any residue.

HANDLING AND STORAGE

Storage

Store in a cool dry location.

Handling

Keep from freezing.

Practice good industrial hygiene.

Immediately sweep up any spills. To avoid potential dust, maintain good housekeeping.

Do not smoke when using. Avoid contact with skin.

PERSONAL PROTECTION

Respiratory Protection

Use NIOSH approved respirator if not properly ventilated and dust accumulation is more than 15 mg/m³.

Protective Gloves

Recommended if prolonged use of product.

Eye Protection

Goggles with side shield

Skin/Body Protection

No special suits required, only if splashing is likely.

Other

Wash affected areas after use.

PHYSICAL/CHEMICAL PROPERTIES

Appearance and color

White granular

Odor

None

pH

N/A

Melting Point

N/A

Flash Point

Does not flash.

Vapor Density

N/A

Auto ignition

Does not ignite.

STABILITY

Stability

Stable

Polymerization

Will not occur

Conditions to avoid

None

Incompatible Material

Strong oxidizing agents. Thermal decomposition may produce Nitrogen oxides.

TOXICOLOGICAL

Inhalation

Non toxic by inhalation

Dermal

Non toxic

Oral

LD 50 Acute oral on rats > 5.0gm/Kg.

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IRRITATION

Eyes	Tests by Draize showed the material does not produce Corneal or iridial effects. Only slight conjunctival effects,
Skin Sensitization	This is similar to all materials in granular form. Non irritating Prolonged skin contact can produce dermatitis. Product not expected to be sensitizing.

ECOLOGICAL

Fish	LC/50/Pimephales Promelas 96 hr>4000 mg/L (OECD 203)
Algae	IC/50/Scenedesmus subspicatis/72hr> 500mg/L (OECD 201)
Daphnia	LC/50/daphnia magna/48hr> 5000mg/L (OCED 202)
Persistence/degradability	Not readily biodegradable.

DISPOSAL

Unused Product:	Dispose in accordance with city, state and federal regulations.
Package:	When in compliance with local regulations, container can be incinerated or land filled.

REGULATORY

Components are on TSCA and Canada DSL. Considered non hazardous under 29 CFR 1910.1200. Complies and Certified with NSF International ANSI / NSF 60, Drinking Water treatment Chemicals – Health Effects.	
RCRA Status	Not a hazardous waste
Hazardous Waste Number	Not applicable
Reportable Quantity (40CFR 302)	Not applicable
Threshold planning Quantity (40CFR 335)	Not applicable

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.

innovative turf solutions

3318 Glenmont Ln, Cincinnati, OH 45248
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EnviroPam

EnviroPam is a safe, non-toxic linear anionic polymer that binds hydroseeding media to the soil particles, helps maintain soil structure and reduces soil erosion. EnviroPam retains moisture creating a better seed germination environment and establishment. It will not clog in the tank, clogging the spray nozzle. EnviroPam lubricates the slurry mix and tightens the slurry stream and will increase shooting distance. EnviroPam can be used as a temporary dust abatement and as a temporary soil stabilizer to protect against erosion. It can be applied through hydraulic equipment for clarifying sediment/holding ponds.

EnviroPam meets ANSI/NSF Standard 60 drinking water requirements. EnviroPam is compatible with biostimulants, fertilizers and surfactants.

Benefits and Features:

- Economical and easy to apply
- Reduces erosion
- Provides for better seed germination environment
- Bonds hydroseeding matrix to soil particles
- Dust Control
- Flocculant
- Improves soil by increasing soil porosity and water infiltration
- Compatible with other hydroseeding amendments

Uses:

- Construction Sites
- Mine Tailings
- Refuse Sites
- Reforestation and Revegetation
- Landfill Cappings

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Application Rates:

Slope:	Flat	4:1	3:1	2:1	1:1
Lbs./Acre	5	7	9	12	15

Packaging:

55 lb. Bags/40 per pallet
2x15 lb. Jugs per case/36 cases per pallet
6 lb. Pail/72 pails per pallet
6x3 lb. Jugs per case/36 cases per pallet
8x5 lb. Bags per case/36 cases per pallet

Product Characteristics:

Chemical:	Anionic linear copolymer of acrylamide
Appearance:	White granular
Maximum Concentration:	5g/l
Viscosity:	2410 cps
Biodegradation:	Not readily biodegradeable
Residual Acrylamide	<500 ppm

Data on application rates is provided for information purposes only. Application rates may vary according to soil conditions, and slope. No statement contained herein is to be construed to constitute the permission, recommendation or encouragement of any use or application that may infringe on patents now or hereinafter in existence. NO WARRANTY OF MERCHANTABILITY OR WARRANTY OF SUITABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE BY INNOVATIVE TURF SOLUTIONS. No warranty, express or implied, is made by INNOVATIVE TURF SOLUTIONS except as may be provided in the Sales Contract or Invoice applicable to the goods in question.