CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Information:
Innovative Turf Solutions
3318 Glenmont Lane
Cincinnati, OH 45248
513.317.8311
www.innovativeturfsolutions.com

Product Name: ENVIRO PAM
Chemical Family: Linear anionic water soluble polymer
Emergency Telephone: 216-475-8488

HAZARDOUS INGREDIENTS

HMIS Rating: H1, F1, R0

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
MSDS
MATERIAL SAFETY DATA SHEET
ENVIROPAM

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.
Keep from freezing.
Handling
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,
This is similar to all materials in granular form.

Skin
Non irritating  Prolonged skin contact can produce dermatitis.

Sensitization
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 (OCE 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

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.
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 Revegetaion
- Landfill Cappings
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.