MATERIAL SAFETY DATA SHEET
Product: Superabsorbent Polymer / Snow Polymer
No. 2500—28—0—01E January 2, 2012

01-IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING
PRODUCT NAME: Superabsorbent Sodium Polyacrylate Polymer
SUPPLIER: Educational Innovations, Inc., 5 Francis J. Clarke Circle, Bethel CT 06801-2845 USA
(203) 229-0730  Fax (203) 229-0740

02-COMPOSITION / INFORMATION ON INGREDIENTS
Chemical Name: Acrylic Acid Polymer, Sodium Salt (greater than 90% by weight)
CAS No. 9003-04-7
Water (less than 10% by weight)
7732-18-5

03-HAZARDS IDENTIFICATION
MOST IMPORTANT HAZARDS: None
PHYSICAL & CHEMICAL HAZARDS:
In the presence of an ignition source dust can form an explosive mixture with air.
During thermal decomposition, toxic by-products can be released.

04-FIRST-AID MEASURES
SKIN CONTACTS Flush skin immediately with water.
EYE CONTACT Immediately flush eyes with water and seek medical attention.
INHALATION Remove to fresh air. Rinse with gargles or approved saline solution and seek medical attention.
INGESTION Rinse mouth with water. Induce vomiting and seek medical attention.

05-FIRE-FIGHTING MEASURES
SUITABLE EXTINGUISHING MEDIA: Water spray
Dry powder
Carbon dioxide (CO₂)
Foam
SPECIFIC HAZARDS In the presence of an ignition source, dust can form explosive mixture with air in an enclosed space. At temperature above 200 degrees C, thermal decomposition giving toxic products; organic derivatives, carbon oxides, can occur.
SPECIAL PROTECTIVE EQUIPMENT
FOR FIREFIGHTERS Wear protective clothing, safety goggles and self-contained breathing apparatus.

06-ACCIDENTAL RELEASE MEASURES
PERSONAL PROTECTION Avoid contact with skin and eyes.
Prohibit inhalation of dust.
ENVIRONMENTAL PROTECTION Do not release into the environment.
Do not let the product enter into drains.
METHOD FOR CLEANING UP
Recovery Sweep or vacuum spilled product. Do not rinse with water. Product is slippery when wet.
Disposal Destroy by incineration or landfill in accordance with local regulations.

07-HANDLING AND STORAGE
HANDLING PRECAUTIONS: Storage and handling precautions applicable to products;
Dust could form an explosive mixture with air in the presence of an ignition source.
Ensure appropriate exhaust and ventilation at machinery and at places where dust can be generated. (Do not permanently recycle unfiltered air).
Avoid dust formation.
Avoid accumulation of static charges.
Avoid spillage on the floor, product becomes slippery when wet.
STORAGE CONDITIONS: Keep container tightly closed.
Store protected from moisture.
Keep away from heat and sources of ignition.
Provide electrical grounding of equipment and electrical equipment usable in explosive atmosphere.
PACKING MATERIALS: Paper bags lined with polyethylene or polypropylene film
08-EXPOSURE CONTROLS / PERSONAL PROTECTION

PROTECTIVE PROVISIONS Ensure sufficient air exchange and / or exhaust in work areas. (Do not permanently recycle unfiltered air)

CONTROL PARAMETERS
Exposure limits Value recommended by EDANA: VME=0.05mg/m³ (respirable dust) (<10μm)

PERSONAL PROTECTION EQUIPMENT RECOMMENDATIONS:
Respiratory Effective dust mask
Hand Gloves
Eye Safety glasses / goggles
Skin and body Long sleeved shirts & non-skid boots
Hygiene measures Avoid contact with skin and eyes. Wash hands and exposed skin
Prohibit inhalation of dust.

09-PHYSICAL AND CHEMICAL PROPERTIES
Appearance White granular powder
Bulk Density 0.62 to 0.74 g/ml
Decomposition Point ca.330 degrees C
Solubility in H₂O Swells in water
Auto-ignition Temperature Above 400 degrees C

10-STABILITY AND REACTIVITY
CONDITIONS TO AVOID Store protected from moisture.
Keep away from heat and sources of ignition.
HAZARDOUS DECOMPOSITION PRODUCTS
Temperature above 200 degrees C, Thermal decomposition giving toxic products; organic vapors, carbon monoxide
FURTHER INFORMATION Polymer swells in presence of water.

11-TOXICOLOGICAL INFORMATION
Corrosiveness none 1)
Acute Toxicity Oral rat LD50: 2,000 mg/kg 1)
Skin Irritation Not an irritant (Human, Rabbit) 1)
Eye Irritation Not an irritant (Rabbit) 1)
Vaginal Mucosal Irritation Not an irritant (Dog) 1)
Ames Mutagenicity Test Non-mutagenic 1)
Skin contact sensitization Non-sensitizing (Rat) 1)
Symptoms of Exposure Dust may cause eye, nasal, or bronchial irritation.
Cytotoxicity Non-cytotoxicity (L929 cell)

12- ECOLOGICAL INFORMATION
PERSISTENCE / DEGRADABILITY
In water Not readily biodegradable: 0% after 28 days
ECOTOXICITY
AQUATIC TOXICITY
ACUTE TOXICITY

13- DISPOSAL CONSIDERATION
DISPOSAL OF PRODUCT: Destroy the product by incineration.

14- TRANSPORT INFORMATION
ADR / RID Not regulated
IMDG Not regulated
IATA Not regulated
15- REGULATORY INFORMATION

EEC DIRECTIVE
EC CLASSIFICATION / LABELLING
DANGEROUS PREPARATIONS D.88/379/EEC amended by D.93/18/EEC (3rd ATP)
Not classified as dangerous.
INVENTORIES
TSCA(USA): Conforms, not listed
EINECS(EC) : Conforms
ENCS(Japan) : Conforms
CEPA (Canada) All substances are listed under the DSL or not required listed
WHMIS (Canada) Not a controlled product under this directive

16- OTHER INFORMATION

RECOMMENDED USE: Superabsorbent polymers
Aqueous fluid absorbent
REFERENCE 1) Data of contracted outside laboratory
Regulatory information regarding the use of this substance in a given country is the responsibility of the user. This information relates to the specific material(s) listed. It may not be valid for the material(s) if used in combination with other materials or in any process. It is the user's responsibility to satisfy himself as to the suitability and completeness of this information for his own particular use.