MATERIAL SAFETY DATA SHEET

Product: AQUA KEEP Superabsorbent Polymer

No. 2500—28—0—01E January 1, 2015

01-IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

PRODUCT NAME: AQUA KEEP
SUPPLIER: EDUCATIONAL INNOVATIONS, INC.
5 Francis J. Clarke Circle, Bethel, CT 06801
USA
Emergency Telephone: (Japan) 81-06-6220-8539 (USA) 1-800-424-9300 (Chemtrec)

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

SUITEABLE 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 (3rdATP)
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.

AQUA KEEP Products covered under this document include:
SA60S
SA60SXII
SA60N, Type II
SA60II
SA55S
SA55SXII
SA50SXII
SA65S
10SH-PF (formerly J-550)
10SH-NF
CA-180N
CA-300
BA40B