# M<sup>2</sup> Polymer Technologies, Inc.

P.O. Box 365 West Dundee, IL 60118 P: 847/836-1393 F: 847/836-6483

SAFETY DATA SHEET: May be used to comply with OSHA's Hazard Communication Standard, 29 CFR

1910.1200. Standard must be consulted for specific requirements.

PRODUCT NAME: SAP Cubes (Super Absorbent Polymer) Page 1 of 3

SECTION I SUPPLIER'S INFORMATION

M<sup>2</sup> Polymer Technologies, Inc.

P.O. Box 365 Telephone Number for Information: 847/836-1393
West Dundee, IL 60118 Last Update: November 11, 2015

# SECTION II COMPOSITION / INFORMATION ON INGREDIENTS

**Hazardous Components** 

(Specific Chemical Identity: Common Name(s)) OSHA PEL ACGIH TLV % (optional)

2-propenoic acid polymer, crosslinked w/ sodium 2-propenoate
 NE
 NE
 95%
 CAS Number: 9033-79-8

2. Water, deionized or distilled 5%

### SECTION III HAZARDS IDENTIFICATION

Hazardous Components NONE

Physical & Chemical Hazards If ground to fine, dust particles, an ignition source can form an explosive mixture with air. During thermal decomposition, toxic by-products can be released.

Skin Contact Flush skin immediately with water if irritation occurs.

Eye Contact Immediately flush eyes with water and seek medical attention if irritation persists.

Inhalation Remove to fresh air. Due to the large particle size, SAP Spheres are not an inhalation hazard.

Ingestion Rinse mouth with water. If gastric discomfort is felt, then seek medical attention.

#### SECTION V FIRE FIGHTING MEASRUES

Suitable Extinguishing Media Water Spray or Dry Powder or Carbon Dioxide (CO2) or Foam

Specific Hazards At temperatures above 200° C, thermal decomposition giving toxic products can occur.

Special Protective Equipment

For Firefighters Wear protective clothing, safety goggles and self-contained breathing apparatus.

### SECTION VI ACCIDENTAL RELEASE MEASURES

Respiratory Protection (Specify Type) - Where dusty conditions are created, use a suitable, nuisance-type mask.

Ventilation - Local Exhaust Ensure removal of airborne particles.

Protective Gloves - Recommended. Eye Protection - Safety goggles

Work/Hygienic Practices - Wash thoroughly after handling.

Dispose of spilled material in accordance with local, State and Federal regulations for non-hazardous chemical waste.

SECTION VII HANDLING & STORAGE

Handling Precautions: Avoid dust formation.

Avoid spillage of floor. Product becomes slippery when wet.

Storage Conditions Store in original container, and protected from moisture.

Avoid exposure to open flames or temperatures above 200° C.

SECTION VIII EXPOSURE CONTROLS / PERSONAL PROTECTION

Protective Provisions Ensure sufficient air exchange and/or exhaust in work areas.

Exposure Limits Recommended by EDANA: VME = 0.05 mg/m³ (respirable dust < 10 µm)

Note: SAP Spheres contain < 0.05% of particles < 10  $\mu$ m in size.

Personal Protection:

Respiratory Effective Dust Mask

Hand Gloves

Eyes Safety glasses Skin & Body Non-Skid Boots

Hygiene Avoid inhalation of dust.

SECTION IX PHYSICAL & CHEMICAL PROPERTIES

Appearance Opaque, clear to yellowish amorphous spheres (in dry state)

Clear to opaque spheres with a gelatinous texture (in hydrated state)

Bulk Density 4 mm Spheres 0.80 to 0.90 g/cc

2.5 mm Spheres 0.80 to 0.90 g/cc 1.5 mm Spheres 0.80 to 0.90 g/cc

Decomposition Point Approx. 400° C

Solubility in H<sub>2</sub>O Insoluble. Absorbs water and swells.

Auto-ignition Temperature Above 400° C

SECTION X STABILITY & REACTIVITY

Conditions To Avoid Store protected from moisture

Keep away from high heat and open flames.

Hazardous Decomposition

Products Above 200° C thermal decomposition can cause toxic product and carbon monoxide to

form.

Further Information Polymer swells in the presence of water.

SECTION XI TOXICOLOGICAL INFORMATION

Corrosiveness None

Acute Toxicity Oral rat LD50: 2,000 mg/kg

Skin Irritation

Eye Irritation

Vaginal Mucosal Irritation

Ames Mutagenicity Test

Skin contact sensitization

Not an irritant

Not an irritant

Not tested

Non-mutagenic

Non-mutagenic

Non-sensitizing

Symptoms of Exposure Dust may cause eye, nasal or bronchial irritation

Cytotoxicity Non-cytotoxicity

SECTION XII ECOLOGICAL INFORMATION

Persistence/Degradability

In water Not readily biodegradable.

Ecotoxicity None Aquatic Toxicity None Acute Toxicity None **PRODUCT NAME:** 

# **SAP Spheres (Super Absorbent Polymer)**

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# SECTION XIII DISPOSAL CONSIDERATION

Dispose of product in accordance with local, State and Federal regulations for non-hazardous chemical waste.

# SECTION XIV TRANSPORT INFORMATION

ADR / RID Not regulated IMDG Not regulated IATA Not regulated Not regulated

USDOT Freight Class 55. Non-hazardous goods.

# SECTION XV REGULATORY INFORMATION

EC Classification / Labeling Not classified as dangerous.

D.88/379/EEC amended by D.93/18/EEC (3<sup>rd</sup> ATP)

Inventories TSCA (USA) CONFORMS EINECS (EU) CONFORMS ENCS (JAPAN) CONFORMS

CEPA (CANADA) CONFORMS
WHMIS (CANADA) CONFORMS

# SECTION XVI OTHER INFORMATION

Recommended Use Superabsorbent polymers

Aqueous fluid absorbent