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MATERIAL 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: **Snow SAP (Expanding Super Absorbent Polymer)** Page 1 of 2

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**SECTION I SUPPLIER'S INFORMATION**

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Telephone Number for Information: 847/836-1393  
Last Update: December 1, 2007

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**SECTION II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

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Hazardous Components (Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV	% (optional)
Sodium Polyacrylate, Crosslinked CAS Number: 09003-04-7	NE	NE	

Other Limits

Recommended

Recommended Exposure	--		
Guideline for Respirable Particulate	0.05mg/m <sup>3</sup>	(For Particles < 10 µm)	

**SARA Section 313 Reportable Toxic Chemicals: NONE**

NFPA/HMIS: Health - 1, Fire - 1, Reactivity - 0, Specific Hazard - None

Dot Class: Not Regulated

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**SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS**

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Boiling Point	- Solid	Bulk Density (Apparent - g/cc)	0.62 to 0.74 g/cc
Vapor Pressure (mm Hg.)	- LT 10	Decomposition Point	Greater than 330° C
Vapor Density (AIR = 1)	- Nil		
Water Solubility	- Insoluble. Swells in water		
Appearance and Odor	- White granular powder		

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**SECTION IV FIRE AND EXPLOSION HAZARD DATA**

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Auto-ignition Temperature Above 400° C

Flash Point (Method Used) - NONE  
Flammable Limits - Not Available

Extinguishing Media - Water, CO<sub>2</sub> and dry chemical extinguishants.  
Unusual Fire and Explosion Hazards - Extremely slippery conditions if spilled product comes in contact with water.

SECTION V		REACTIVITY DATA	
Stability	Unstable Stable	- X	Conditions to Avoid- None Known
Incompatibility (Materials to Avoid)	- None known		
Hazardous Decomposition or By-products	- None known		
Hazardous Polymerization	- May Not Occur	- X	Conditions to Avoid - None Known

SECTION VI		HEALTH HAZARD DATA				
Route(s) of Entry:	Inhalation?	Yes	Skin?	No	Ingestion?	Yes
Health Hazards (Acute and Chronic)	-		Contact with eyes, skin or clothing may cause irritation.			
Acute (short term) inhalation of dust may cause mild irritation of upper respiratory tract (nose and throat) and lungs.						
Chronic (long-term) inhalation exposure to rats for a lifetime (two years) using a sodium polyacrylate that had been micronized to a respirable particle size (<10 µm) produced non-specific inflammation and chronic lung injury at 0.2 mg/m <sup>2</sup> and 0.8 mg/m <sup>2</sup> . At 0.8 mg/m <sup>2</sup> , tumors were seen in some animals. In the absence of chronic inflammation, tumors are not expected. There were no adverse effects of any kind at 0.05 mg/m <sup>2</sup> .						
Sodium polyacrylate had no effect in mutagenicity tests.						
Cytotoxicity	Non-cytotoxic (L929 cell)					
Acute Toxicity	Oral rat: 2,000 mg/kg					
Ames Mutagenicity Test	Non-mutagenic					
Carcinogenicity:	NTP? No		IARC Monographs? No		OSHA Regulated? No	
Signs and Symptoms of Exposure	-Reddening, drying of affected area with possible itching, burning or other discomfort. Irritation of the upper respiratory tract.					
Medical Conditions	Generally Aggravated by Exposure Existing respiratory and allergic conditions.					
Emergency and First Aid Procedures -	Flush eyes with large quantity of water. Wash skin with soap and water. If inhaled, move to fresh air. Consult physician regarding any continued discomfort.					

SECTION VII		PRECAUTIONS FOR SAFE HANDLING AND USE	
Steps to be taken in Case Material is Released or Spilled:	Collect material. Avoid generating airborne dust. Avoid contact with water, as extremely slippery conditions will result. Residuals are to be flushed thoroughly with water to the drain for normal wastewater treatment.		
Waste Disposal Method:	Dispose of in accordance with local, Federal, and State regulations. Non-hazardous waste material suitable for approved solid waste landfill.		
Precautions to be taken in Handling and Storing:	Handle as an eye irritant. Store in a cool, dry place. Do not ingest. Avoid breathing powder. Avoid skin and eye contact.		
Other Precautions:	Dusty conditions may irritate eyes and respiratory system. Slippery when wet.		

SECTION VIII		CONTROL MEASURES	
Respiratory Protection (Specify Type) -	Where dusty conditions are created, use a suitable, nuisance-type mask.		
Ventilation	- Local Exhaust	Ensure removal of airborne particles.	Other - Not required.
	- Mechanical (General)	- Recommended.	
Protective Gloves	- Recommended.		Eye Protection - Safety goggles
Other Protective Clothing or Equipment	- None		
Work/Hygienic Practices	- Wash thoroughly after handling.		