

OCCUNOMIX INTERNATIONAL INC.

585-10 NORTH BICYCLE PATH
PORT JEFFERSON STATION, NEW YORK 11776
FAX: 631-474-0073 TEL: 631-474-0071

MSDS6253



Additional Explanation for the "Material Safety Data Sheet" Pertaining to Superabsorbent Polymer

The MSDS covering the superabsorbent polymer used in OccuNomix' MiraCool products pertains to the handling, inhalation, ingestion or other contact with the polymer itself. Typically, this would relate to people involved in the manufacturing, packaging or other handling of the polymer in **bulk form**. In bulk form, the polymer is a slightly coarse - slightly fine powder.

When the polymer is enclosed, as it is in our MiraCool products, it is virtually impossible to inhale the polymer crystals. As the MiraCool products - when wet - do come in contact with the skin, the possibility exists for slight absorption of the wet polymer into the body through the skin. It is also possible for some of the wet polymer to come in contact with the MiraCool product wearer's eyes and it is possible that some of the polymer may be ingested.

The MSDS discusses the potential adverse effects of these kinds of contacts with the body. It should be noted, however, that there is approximately 1/2 to 1 teaspoon of polymer in each MiraCool product. When combined with relatively large amounts of water, which is the case with all wet MiraCool products, the potential negative effects compared to the handling of polymer in bulk form are significantly reduced from the already low level described in the MSDS.

Although we are unaware of any incident of injury resulting from use of our MiraCool product or any of our competitor's products made with superabsorbent polymers, the possibility always exists that some person or persons may have a particular sensitivity to the polymer, to the fabric or to the dyes used in the fabric. Accordingly, a warning is placed on the hangtag of every MiraCool product which indicates if the wearer's skin becomes irritated to wash with soap and water and discontinue use.

The polymer used by OccuNomix is manufactured by one of the largest companies in the world and this type of polymer is safely used in incontinence products, in baby's disposable diapers, in cosmetics and in agriculture. If any further information is required concerning the safety, the use, the misuse or the experience with these types of products - please contact us.

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.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY Polymer used in MiraCool Products	NOTE: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that. NA = Not Applicable; NE = Not Established; NH = Non-Hazardous
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SECTION I	
Manufacturer's Name OccuNomix International Inc	Emergency Telephone Number 631-474-0071
Address (Number, Street, City, State, and ZIP Code) 585-10 North Bicycle Path	Telephone Number for Information 631-474-0071
Port Jefferson Station NY 11776	Date Prepared September 10, 1998
www.occunomix.com	Signature of Preparer (optional) W.D.C.

SECTION II - Hazardous Ingredients/Identity Information				
Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Polyacrylate/Polyalcohol Copolymer CAS No. 130672 - 62 - 7	NE	NE	0.05 mg/m ³ *	
Polyalcohol polymer CAS No. 9002-89 - 5	NE	NE		
Post Treated - Trade Secret CAS No. Trade Secret	NE	NE		

* Recommended inhalation exposure limit guideline. Small, less than 10 microns respirable polyacrylate. See Section VI of MSDS.

SECTION III - Physical/Chemical Characteristics			
Boiling Point Solid	NE	Specific Gravity (H ₂ O = 1) Bulk Density	0.4 - 0.7
Vapor Pressure (mm Hg) Less than	10	Melting Point Greater than	390° F
Vapor Density (AIR = 1) Nil	NE	Evaporation Rate (Butyl Acetate = 1) Less than	1
Solubility in Water Insoluble			
Appearance and Odor White granular powder, no odor			

SECTION IV - Fire and Explosion Hazard Data			
Flash Point (Method Used) None	Flammable Limits	LEL NE	UEL NE
Extinguishing Media Water, CO ₂ and dry chemical extinguishants			
Special Fire Fighting Procedures None			

Unusual Fire and Explosion Hazards
Extremely slippery conditions are created if spilled product comes in contact with water

SECTION V - Reactivity Data

Stability	Unstable		Conditions to Avoid	None known
	Stable	X		

Incompatibility (Materials to Avoid)
None known

Hazardous Decomposition or Byproducts
None known

Hazardous Polymerization	May Occur		Conditions to Avoid	None known
	Will Not Occur	X		

SECTION VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	No	No

Health Hazards (Acute and Chronic)

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 sodium polyacrylate that had been micronized to a respirable particle size (less than 10 microns) produces non-specific inflammation and chronic lung injury at 0.2 mg/m³ and 0.8 mg/m³.

At 0.8 mg/m³, 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/m³.

Sodium polyacrylate had no effect in mutagenicity tests.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	No	No	No

Signs and Symptoms of Exposure

Possible reddening, drying of skin or eyes with itching, burning or other discomfort, irritation of nose and throat

Medical Conditions Generally Aggravated by Exposure

May aggravate existing respiratory conditions, skin conditions (due to drying effect).

Emergency and First Aid Procedures

Flush eyes thoroughly with water. If inhaled, move to source of fresh air. Call a 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 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 accordance with Local, State and Federal regulations. Non-hazardous waste material suitable for approved solid waste landfill.

Precautions to Be Taken in Handling and Storing

Handle as an eye irritant. Do not get into eyes. Avoid prolonged or repeated skin contact. Do not inhale dust. Do not ingest.

Other Precautions

Dusty conditions may irritate the eyes and respiratory system. Wear goggles and mask with high efficiency filter where dust is created.

SECTION VIII - Control Measures

Respiratory Protection (Specify Type)

Wear respirator or mask with high efficiency filter for particulate levels above 0.05 mg/m³.

Ventilation	Local Exhaust	Special
	Ensure airborne particles are removed.	Not required
Protective Gloves	Mechanical (General)	Other
	Recommended	Not required
Other Protective Clothing or Equipment		Eye Protection
	Recommended	Safety glasses or goggles
		Work/Hygienic Practices
	None	Wash thoroughly after handling