

MATERIAL SAFETY DATA SHEET

PRODUCT NAME:

THERMO-GEL®500P

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SECTION I

Emergency telephone number:
(800) 424-9300

Manufacturer's Name and Address
Thermo Technologies, LLC.
400 East Broadway Ave.
Bismarck, ND 58501

Telephone Number for Information:
701-258-8208

Date Prepared:
5/1/02

NA = Not Applicable
NE = Not Established
NH = Non-Hazardous

SECTION II – Hazardous Ingridients/Identity Information

Hazardous Components (Specific Chemical Identity: Common Names(s))

	OSHA PEL	ACGTH TLV	Other Limits Recommended	% (optional)
Sodium Polyacrylate, Crosslinked CAS No. 09003-04-7	NE	NE	0.05mg/m ³	

Thermo Technologies recommended inhalation exposure limit guideline. Small, less than 10 microns respirable polyacrylate. See also Section VI of MSDS

SARA Section 313 Reportable Toxic Chemicals – None %

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	Less than 1	
			(Butyl Acetate = 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 Stable	-	Conditions to Avoid:	None Known
Incompatibility (Materials to Avoid):	None known			
Hazardous Decomposition or By-products:	None known			
Hazardous Polymerization	X	May Occur Will Not Occur	Conditions to Avoid:	None Known

SECTION VI – Health Hazard Data

Route(s) of Entry:	Inhalation? Yes	Skin? No	Ingestion? 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 a sodium polyacrylate that had been micronized to a respirable particle size (less than 10 microns) produced non-specific inflammation and chronic lung injury at 0.2mg/m ³ and 0.8mg/m ³ . At 0.8mg/m ³ , 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 005mg/m ³ . Sodium polyacrylate had no effect in mutagenicity tests.		
Carcinogenicity:	NTP: No	IARC: No	OSHA: 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 in Case of Release/Spill:	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 of in accordance with Local, State and Federal regulations. Non-hazardous waste material suitable for approved solid waste landfill.
Precautions to Taken in Handling and Storing:	Handle as 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	Wear respirator or mask with high efficiency filter for particulate levels above 0.05mg/m ³ .	
Ventilation Local Exhaust	Ensure airborne particles are removed.	Special: Not required
Mechanical	Recommended	Other Ventilation: Not required
Protective Gloves	Recommended	Eye Protection: Safety glasses or goggles
Other Protective handling	None	Work/Hygienic Practices Wash thoroughly after handling
Clothing or Equipment		