

Progressive Polymers, Inc.

14956 Pheasant Run Ct NW
 Prior Lake, MN 55372
 (952)233-5780 Phone
 (952)233-5793 Fax

Material Safety Data Sheet

HAZARD RATINGS

HEALTH----- 1
 FLAMMABILITY----- 1
 REACTIVITY----- 0

SECTION I - PRODUCT IDENTIFICATION

PRODUCT TRADE NAME

Unigel 18-P-F-II

CHEMICAL NAME / SYNONYMS

Cellulose Ether

COMMON NAME

Cellulose Polymer

FORMULA / MOLECULAR WEIGHT

N/A - Mixture

CAS NUMBER

N/A - Mixture

DOT HAZARD CLASSIFICATION

Not Restricted

TECHNICAL CONTACT NAME

Bruce Gutweiler

TELEPHONE NUMBER

(952)233-5780

EMERGENCY TELEPHONE NUMBER

(877)207-1121

SECTION II - PRODUCT DESCRIPTION

APPEARANCE

White Powder

ODOR

Odorless

PHYSICAL DATA

Melting Point----- N/A - Decomposes
 Density----- 40 lbs. Per Cubic Foot
 Water Solubility----- N/A - Thickener
 Percent Volatile @ 70 Deg. F----- None

COMPONENTS NAME

CAS#

CONTENT

HAZARD

TLV

Mixture

N/A

* Mixture

Nuisance Dust

N/A

Primary Component

9004-32-4

Cellulose Ether

**ALL COMPONENTS OF
 THIS PRODUCT
 COMPLY WITH F.D.A.
 REGULATION 184(GRAS)
 (GENERALLY REAGARED AS SAFE)**

(PEL) None of the above components are listed in Pub#85-114 as per CER 1910

M.S.D.S.

Unigel 18-P-F-II

SECTION III – FIRE AND EXPLOSION DATA

FLASH POINT (DEG. F) N/A		TEST METHOD N/A	
RECOMMENDED EXTINGUISHING MEDIA			
Water	CO ₂ <input checked="" type="checkbox"/>	Foam <input checked="" type="checkbox"/>	Other <input checked="" type="checkbox"/> Dry Chemical

UNUSUAL FIRE OR EXPLOSION HAZARDS (CONDITIONS TO AVOID)
 Product dusts may be explosive in mixtures with air.
 Product becomes slippery when wet.

SPECIAL FIRE FIGHTING PROCEDURES
 None Known

SECTION IV – REACTIVITY DATA

STABILITY UNDER NORMAL CONDITONS	
Stable <input checked="" type="checkbox"/>	Unstable (Conditions to Avoid) – None known
INCOMPARABLE MATERIALS (MATERIAL TO AVOID)	
None Known <input checked="" type="checkbox"/>	Water Acid Base Oxidizers Others

HAZARDOUS POLYMERIZATION
 Will Not Occur May Occur (Conditions To Avoid)

SECTION V – ACUTE HEALTH AND SAFTEY DATA

TEST TYPE	RESULT	ANIMAL SPECIES	HAZARD DESCRIPTION
None Conducted by P.P.I., Inc.			

SECTION VI – HANDLING PRECAUTIONS / FIRST AID RECOMMENDATIONS

NOTICE: Although this product is considered to be non-hazardous, use with proper care and handling precautions to prevent unnecessary contact with or inhalation of product dusts.

Good housekeeping is essential – dust generated in normal handling should be cleaned up immediately to prevent potential slippery conditions.

FIRST AID: In case of skin or eye contact, flush with clean running water.

SECTION VII – SPILL PROCEDURES

STEPS TO TAKE IF SPILLED

Using explosion-proof equipment, pick up spilled material and containerize. Vacuum area or flush with water to remove residue.
(NOTE: Product becomes slippery when wet)

SECTION VIII – SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS

GENERAL AREA EXHAUST NORMAL	LOCAL EXHAUST	NOT NECESSARY UNDER
--------------------------------	---------------	---------------------

PERSONAL PROTECTIVE EQUIPMENT RECOMMENDED FOR NORMAL USE CONDITIONS

EYE PROTECTION TYPE X Safety glasses with side shields	SKIN PROTECTION N/A	RESPIRATORY PROTECTION TYPE X Nuisance dust mask if use causes dusting
--	------------------------	--

SECTION IX – SPECIAL PRECAUTIONS

Keep containers tightly closed when not in use. Powders may form explosive mixtures with air. Do not store or handle in the presence of heat or an ignition source. Do not allow powder or dust to accumulate in work or storage area.

THE INFORMATION SUPPLIED HEREIN RELATES TO THE PRODUCT NAMED AND IS BASED UPON INFORMATION THE COMPANY CONSIDERS TO BE ACCURATE. NO WARRANTY, EXPRESSED OR IMPLIED, IS INTENDED. THIS INFORMATION IS OFFERED SOLELY FOR YOUR CONSIDERATION AND INTERPRETATION.

Prepared By Bruce [Signature]

Date Prepared 7.24.07

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 (As used on Label and List)
LiquiBlock™ 80

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

SECTION I

Manufacturer's Name / Address
 Emerging Technologies, Inc.
 400-A Edwardia Drive
 Greensboro, NC 27409

 www.creativechemistry.com

Emergency Telephone Number
 CHEMTREC (24 HR) - 1-800-424-9300
Telephone Number for Information
 336-851-9097
Date Prepared
 March 7, 2002

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 (H₂O = 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

Flammable Limits LEL: NE UEL: NE

Flash Point (Method Used) - None

Extinguishing Media - Water, CO₂ 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 of in 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: Ensure airborne particles are removed.

Mechanical (General): Recommended

Special: Not required

Other: Not required

Protective Gloves: Recommended

Eye Protection: Safety glasses or goggles.

Work/Hygienic Practices: Wash thoroughly after handling.

Other Protective Clothing or Equipment: None