



MATERIAL SAFETY DATA SHEET

HMIS Hazard Rating: Health = 1 Fire = 1 Reactivity = 0

0= Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme

Section I General Information

Product Name: Unigel 19XL
Product Description: Guar Gum Powder
Manufacturer: Universal Well Services, Inc.
Address: 18360 Technology Drive, Box 4
Meadville, PA 16335

24 Hour Emergency Information call: (800) 424-9300
Chemtrec Emergency Number: (800) 424-9300
Information effective date: March 2008
Replaces: May 2007
Preparer: Universal Well Services, Inc.

Section II Composition - Information on Ingredients

Principle Component(s)	%/wt	Limits
Guar Gum	>95%	Not established

Section III Physical and Chemical Properties

Boiling Point (°F): NA
Vapor Pressure (mm Hg * 20°): ND
Vapor Density (Air = 1): ND
Solubility in Water: Gels
Specific Gravity (H20=1): ND
pH of 1% solution: NA
Appearance and Odor: Off white to light yellow powder with no apparent odor.

Section IV Fire and Explosion Information

Flash Point: Non-combustible

Extinguishing Media: This chemical is not combustible. Use media suitable for the surrounding fires. Use water spray to cool exposed containers.

Special Fire Fighting Procedures: Product becomes slippery when wet. Approach fire from upwind side. Avoid breathing smoke fumes, mist, or vapors on the downwind side.

Unusual Fire/Explosion Hazards: Finely divided dust suspensions may cause an explosion when given a source of ignition.

Section V Health Effects Information

Effects of Overexposure:

Eyes: May cause irritation, experienced as mild discomfort and slight redness of the eye.

Skin: No adverse effects expected from absorption of material through the skin. Prolonged contact may cause irritation.

Inhalation: Dust may produce a respiratory allergenic response and/or irritation in some individuals.

Ingestion: Although this is an unlikely route of exposure, if more than several mouthfuls are swallowed, depression of the circulatory system, vomiting and diarrhea may occur.

Carcinogenicity:

Not listed as a carcinogen - IARC, NTP or OSHA

Emergency and First Aid Procedures:

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes using an eyewash fountain, if available. Lift upper and lower lids and rinse well under them. Get medical attention, preferably an ophthalmologist if irritation occurs.

Skin: Flush all affected areas with plenty of water for several minutes. Remove and wash any contaminated clothing and shoes. Get medical attention if skin irritation occurs.

Ingestion: Fluids should be taken to prevent esophageal obstruction if dry material is swallowed. Get medical attention.

Inhalation: Remove victim to fresh air. If not breathing administer cardiopulmonary resuscitation or artificial respiration. If breathing is difficult or irritation develops, administer oxygen. Get medical attention.

Section VI Reactivity Information

Stability: Stable

Conditions to Avoid: Incompatible with strong acids and oxidizers.

Hazardous Decomposition Products: None known.

Hazardous Polymerization: Will not occur

Section VII Spill and Leak Procedures

All spills can be handled routinely. Surfaces subject to spill or dusting can become slippery when wet. To the extent possible, clean up spillage using shovels, sweeping or vacuuming. If possible, clean up spill area on a dry basis and then flush with plenty of water. Place in appropriate containers for disposal.

Handling Precautions: Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the materials from eyes, skin and clothing. Avoid prolonged or repeated breathing of the dust. Wash thoroughly after handling product.

Section VIII Personal Protection

Respiratory Protection: Not generally required unless needed to prevent respiratory irritation. If concentrations exist at levels greater than the permissible exposure level, use a NIOSH approved dust respirator as a minimum. Follow guidelines contained in 29CFR § 1910.134, OSHA's respiratory protection standard.

Ventilation: Provide adequate ventilation. Use local exhaust as needed to maintain airborne exposure below control limits.

Personal Protective Equipment: Rubber or neoprene gloves, safety glasses or goggles and chemical apron.

Work Hygiene Practices: Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown in Section V. Launder contaminated clothing before reuse.

Section IX Transportation Information

OSHA Label:

Avoid contact with skin, eyes and clothing.

Wear protective eyewear, rubber or neoprene gloves and chemical apron.

Universal Well Services, Inc. 18360 Technology Drive, Box 4. Meadville, PA 16335

24-Hour Emergency Information call: (800) 424-9300

DOT Proper Shipping Name, Hazard Class, UN/NA Number, Packing Group, RQ (if needed):

<p>Not regulated Label required: None</p>

Section X Regulatory Information

TSCA Inventory Status: This product, or its components, if a mixture, is listed on the TSCA inventory.

SARA TITLE III

Section 302/304: This product does not contain ingredients listed as an Extremely Hazardous Substance.

Section 311/312: IMMEDIATE & DELAYED

Section 313: This product does not contain ingredients (at a level of 1% or greater) on the List of Toxic Chemicals.

All ingredients are included on the Environment Canada's Domestic Substances List.

Section XI DISCLAIMER

This Material Safety Data Sheet (MSDS) was prepared in accordance with the provisions and requirements of 29 CFR § 1910.1200 (g) and discloses the physical and health hazards of all hazardous chemicals contained in the Product described in this MSDS, but unless otherwise noted, does NOT describe or disclose ALL of the chemicals/components in the Product, some of which may be Trade Secrets. The information included in this MSDS is based on data developed or compiled by Universal from open literature, independent laboratory studies, and other available scientific evidence and is believed to be accurate and complete, but Universal makes no warranty with respect thereto. **Neither does Universal make any representation or warranty, express or implied, with respect to the Product or its suitability for any purpose or use, hereby disclaiming all such warranties, including the implied warranties of merchantability and fitness for a particular purpose and the implied warranty that the Product is free of claims of third persons by way of infringement or the like.**

Anyone intending to use the Product described in this MSDS should satisfy himself that the Product is suitable for their particular purposes and intended uses. It is the obligation of each user of the Product described in this MSDS to determine and comply with the requirements of all statutes – local, state and federal – applicable to its use, storage and disposal.

Footnote

ACGIH = American Conference of Governmental Industrial Hygienists"

NIOSH = National Institute for Occupational Safety and Health Hygienists

CAS # = Chemical Abstracts Service Register number

NTP = National Toxicology Program

CL = Ceiling Limit

OSHA, TWA = Occupational Safety and Health Administration, Time Weighted Average

IARC = International Agency for Research on Cancer

PMCC = Pensky - Martens Closed Cup Flash Point Determination.

ASTM D93-19 34

NA = Not Applicable

STEL = Short Term Exposure Limit

TCC = Tagliabue Closed Cup flash point determination

ND = Not Determined

TLV = Threshold Limit Value

NFPA = National Fire Protection Association

TWA = Time Weighted Average, 8 hours