



# Texan Minerals and Chemicals LLC

14090 Southwest Freeway, Suite 310, Sugar Land, TX 77478

Phone: 713-294-4180 Email: Mani@tmcgreen.com



## READY GUAR HV SLURRY

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifier: READY GUAR HV SLURRY

**Common name (s):** Guar Gum

**Chemical Family:** Gums, Polysaccharides

**Synonyms:** N/A

#### 1.2 Manufacturer, Importer, and/or Responsible Party Information:

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#### Emergency Contact Information:

**INFOTRAC: 1-352-323-3500 (International) 1-800-535-5053 (North America)**

#### 1.3 Recommended Use of Chemical:

**Chemical Services:** Additive / Oilfield chemical/chemicals. Manufacture of substances.

**Use Restrictions:** N/A

### Section 2: HAZARDS IDENTIFICATION

#### 2.1 OSHA Hazard Classification: 29CFR1910.1200

Combustible Liquid - this material is considered hazardous under the criteria of the Federal OSHA Hazard Communication Standard C.4.3 (29CFR 1910.1200).

#### 2.2 GHS Classification

Flammable Liquid, Category 4

#### 2.3 GHS-Labeling

Warning

#### 2.4 Carcinogenicity:

**IARC:** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**NTP:** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**ACGIH:** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH

#### 2.5 Precautionary Statement:

Prevention: P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.



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P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response: P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage: P403 + P235: Store in a well-ventilated place. Keep cool.

Disposal: P501: Dispose of contents/ container to an approved waste disposal plant

### 2.6 Pictogram:



### 2.7 Hazard Statement(s):

Precaution needed

### 2.8 Description of Hazards Not Otherwise

**Classified:** N/A

### 2.9 NFPA Classification:

Health Hazard: 1

Fire Hazard: 1

Reactivity Hazard: 0

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Chemical Names and Concentrations:** Guar Gum and other Gum with application specific proprietary blend suspended in Mineral oil.

**Common Name:** Guar Slurry

**Synonyms:** Gums, Polysaccharides

**Chemical Abstract Service (CAS) No. :**

Guar Gum, CAS 9000-30-0, 40-50%

C12-C14 Isoalkanes, CAS 68551-19-9, 0-50%

Petroleum Distillate - Hydrotreated light, CAS 64742-47-8, 0-50%

**EC No.:** E 412

**Any Other Unique Identifiers:** N/A

**Impurities and Stabilizing Additives:** None

### 3.2 Recommended Use of Chemical:

**Chemical Services:** READY GUAR SLURRY FH 40-45 is used in drilling and completion, Fracking operations.

**Use Restrictions:** N/A

**3.3 Trade Secret:** Is the specific chemical identify and/or exact concentration of composition withheld as a trade secret? YES



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## Section 4: FIRST AID MEASURES

### 4.1 Necessary First-Aid Instructions:

**Inhalation:** If inhaled, move person into fresh air.

If not breathing, give artificial respiration. Get medical attention for any breathing difficulty.

**Skin Contact:** In case of skin contact, wash off with soap and plenty of water.

**Eye Contact:** In case of eye contact, flush eyes with water as a precaution. Get medical attention if irritation develops.

**Ingestion:** If swallowed, never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical attention.

**Most Important Symptoms/Effects:** No data available

### 4.2 Immediate Medical Care / Special Treatment:

**Is immediate medical care or special treatment required?** No data available

**If so, what is needed?** No data available

## Section 5: FIREFIGHTING MEASURES

**5.1 Suitable Extinguishing Equipment:** In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. When mixed with water becomes slippery.

**5.2 Extinguishing Equipment Not Appropriate:** N/A

**5.3 Specific Hazards Created from Chemical Burning:** Flammable liquid.

**5.4 Special Protective Equipment Needed:** Wear protective gloves/ protective clothing/ eye protection/ face protection.

## Section 6: ACCIDENTAL RELEASE MEASURES

**6.1 Personal Precautions:** Use appropriate protective equipment. Avoid creating and breathing liquid.

**6.2 Emergency Procedures:** Avoid vapor formation. Avoid breathing vapors, mist or gas. For personal protection see Section 8.

**6.3 Method(s) and Material(s) for Containment:** Sweep and/or shovel, and keep in suitable, closed containers for disposal. Keep away from ignition source. When in solution product can create slip hazard on smooth surface.

**6.4 Cleanup Procedure(s):** Sweep and shovel.

## Section 7: HANDLING AND STORAGE



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**7.1 Handling Precautions:** Further processing of materials may result in the formation of flammable vapors. The potential for flammable vapor formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where vapor is formed. Avoid formation of aerosol. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.

**7.2 Hygiene Practices:** Normal hygiene practices are sufficient.

**7.3 Safe Storage Recommendations:** No Smoking. Keep container tightly closed in a dry and well-ventilated place.

**7.4 Incompatible Storage Recommendations:** N/A

### **Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 OSHA Permissible Exposure Limits (PELs):** Contains no substances with occupational exposure limit values.

**8.2 American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs):** No Data Available

**8.3 Exposure Limit (recommended by manufacturer, importer or employer):**  
TWA – 1200 mg/m<sup>3</sup>

#### **8.4 Appropriate Engineering Controls:**

Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

#### **8.5 Recommendations for Personal Protective Measures:**

Respiratory protection: Wear a NIOSH-approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric



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pressure. Air-Purifying Respirator for Organic Vapors. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

Hand protection: The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection: Eye wash bottle with pure water. Tightly fitting safety goggles.

Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the workplace. Wear as appropriate: Protective suit. Safety shoes.

Hygiene measures: Wash hands before breaks and at the end of workday.

### **8.6 Special Requirements of PPE: N/A**

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:** Liquid

**Color:** Light Brown

**Odor:** Hydrocarbon

**pH:** NDA

**Specific Gravity @ 20°C (Water=1):** 0.97-1.08

**Density @ 20°C (lbs. /gallon):** 8.0 -8.8

**Bulk Density @ 20°C (lbs. /ft<sup>3</sup>):** Not Determined **Boiling Point/Range (F):** 424 - 460

**Boiling Point/Range (C):** 217.8 – 237.8

**Flash Point/Range (F):** 220.1

**Auto Ignition temperature:** > 200 C, (> 392F)

**Vapor Density (Air=1):** N/A

**Percent Volatiles:** Not Determined

**Evaporation Rate (Butyl Acetate=1):** N/A

**Solubility in Water (g/100ml):** Soluble-dispersible; makes colloidal solution

**Solubility in Solvents (g/100ml):** Varies upon nature of solvent

**VOCs (lbs. /gallon):** N/A

**Partition Coefficient/n-octanol/Water:** N/A

**Molecular Weight (g/mole):** Very high

## **Section 10: STABILITY AND REACTIVITY**

**10.1 Reactivity:** May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

**10.2 Chemical Stability:** Stable under recommended storage conditions.



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**10.3 Possibility of Hazardous Reactions:** No data available

**10.4 Conditions to Avoid:** Heat, Flame and Sparks.

**10.5 Incompatible Materials:** Strong oxidizing agents.

**10.6 Hazardous Decomposition Products:** None

### **Section 11: TOXICOLOGICAL INFORMATION**

**11.1 Principle Route of Exposure:** Eye or skin contact and inhalation.

**Inhalation:** May cause mild respiratory irritation. **Skin Contact:** May cause mild skin irritation.

**Eye Contact:** May cause eye irritation.

**Ingestion:** May cause mild gastric distress. **Aggravated Medical Conditions:** N/A

**Chronic Effects/Carcinogenicity:** NDA

**Other Information:** None known.

#### **11.2 Toxicity Tests:**

**Carcinogenicity:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, OSHA.

##### **Acute oral toxicity**

C12-C14 Isoalkanes : LD50: > 3,900 mg/kg

Species: rat

Distillates (petroleum), hydrotreated light: NDA

##### **Acute inhalation toxicity**

C12-C14 Isoalkanes: LC50: > 5.3 mg/l Exposure time: 4 h

Species: rat

Test atmosphere: dust/mist

Distillates (petroleum), hydrotreated light: NDA

##### **Acute dermal toxicity**

C12-C14 Isoalkanes: LD50: > 2,000 mg/kg

Species: rabbit

Distillates (petroleum), hydrotreated light: NDA

##### **Repeated dose toxicity**

C12-C14 Isoalkanes: Species: Monkey

Dose: 0, 654 ppm

Exposure time: 4 wk

Number of exposures: 6 h/d, 3 d/wk

NOEL: > 654 ppm



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Concentrations substantially above the TLV value may cause narcotic effects. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Solvents may degrease the skin. Inhalation of vapors in high concentration may cause irritation of respiratory system.

### **Section 12: ECOLOGICAL INFORMATION**

**12.1 Mobility (water/soil/air):** No data available

**12.2 Persistence/Degradability:** Expected to be inherently biodegradable.

**12.3 Bioaccumulation Potential:** No data available

#### **12.4 Eco Toxicological Information:**

##### **Acute Fish Toxicity:**

C12-C14 Isoalkanes: LL50: > 1,000 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout) semi-static test Method: OECD Test Guideline 203  
Information given is based on data obtained from similar substances.

##### **Toxicity to daphnia and other aquatic invertebrates:**

C12-C14 Isoalkanes: EL50: > 1,000 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202 Information  
given is based on data obtained from similar substances.

Distillates (petroleum), hydrotreated light

EL50: > 100 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202 Aquatic toxicity  
is unlikely due to low solubility.

##### **Toxicity to algae:**

C12-C14 Isoalkanes: EL50: > 1,000 mg/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Growth inhibition Method: OECD Test Guideline 201 Information given is based on data obtained  
from similar substances.

**12.5 Other adverse effects:** This material is not expected to be harmful to aquatic organisms.  
Information given is based on data on the ingredients and the ecotoxicology of similar products.

### **Section 13: DISPOSAL CONSIDERATIONS**

Use material for its intended purpose or recycle if possible. This material, if it must be discarded,  
may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other





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State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

**13.1 Disposal Method:** Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

**13.2 Contaminated Packaging:** Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on the empty drum.

## Section 14: TRANSPORT INFORMATION

### 14.1 Land Transportation:

**DOT:** NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

Testing (ASTM D4206) has shown product does not sustain combustion.

**Canadian TDG:** Not restricted

**ADR:** Not restricted

**14.2 Air Transportation ICAO/IATA:** Not restricted

**14.3 Sea Transportation IMDG:** Not restricted

**14.4 Other Shipping Information Labels:** None

## Section 15: REGULATORY INFORMATION

### 15.1 US Regulations:

**US TSCA Inventory:** All components listed on inventory.

**EPA SARA Title III Extremely Hazardous Substances:** Not applicable

**EPA SARA (311,312) Hazard Class:** Fire Hazard

**EPA SARA (313) Chemicals:** This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372).

**EPA CERCLA/Superfund Reportable Spill Quantity for This Product:** Not Applicable

**EPA RCRA Hazardous Waste Classification:** If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the EPA.

**California Proposition 65:** Components listed do not apply to the California Proposition 65 regulation.

**MA Right-to-Know Law:** One or more components listed.

**NJ Right-to-Know Law:** Does not apply.

**PA Right-to-Know Law:** One or more components listed.

### 15.2 Canadian Regulations:





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**Canadian DSL Inventory:** All components listed on inventory.

**WHMIS Hazard Class:** Non-Controlled

### **Section 16: OTHER INFORMATION**

**16.1 Additional Information:** For additional information on the use of this product, contact Texan Minerals and Chemicals LLC.

**16.2 Disclaimer Statement:**

Texan Minerals and Chemicals LLC granted to make unlimited paper copies for internal use only. The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Texan Minerals and Chemicals LLC and its Affiliates shall not be held liable for any damage resulting from handling or contact with the above product.

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