



State of the Art Ingredients • Fast Friendly Service

## Guar Conditioner

### SECTION 1 :: PRODUCT IDENTIFICATION

**Product details:**

Trade Name           **Guar Conditioner**  
INCI Name            Guar Hydroxypropyltrimonium Chloride

Emergency Phone Numbers:

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT

CONTACT: CHEMTREC (800-424-9300 within the United States or 703-527-3887 for international collect calls)

### SECTION 2 :: HAZARDS IDENTIFICATION

A. EMERGENCY OVERVIEW:

Physical Appearance and Odor:

off-white powder solid, bean-like odor.

Warning Statements:

CAUTION! EYE IRRITANT. MAY CAUSE ALLERGIC RESPIRATORY REACTION.

B. POTENTIAL HEALTH EFFECTS:

Acute Eye:

May cause eye injury which may persist for several days.

Acute Skin:

Skin absorption not likely. Essentially non-irritating. May cause slight transient irritation.

Acute Inhalation:

Some individuals may develop a respiratory allergenic response.

Acute Ingestion:

Practically non-toxic.

Chronic Effects:

This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens. Raw Guar contains natural proteins that can cause allergic reactions such as asthma and rhinitis. derivatized guar, such as this product, contains far less protein and therefore has a much lower risk of sensitization.

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### SECTION 3 :: COMPOSITION/INFORMATION ON INGREDIENTS

Component	Hazard	CAS Reg Number	OSHA	% WT/WT
GUAR GUM, 2-HYDROXY-3-(TRIMETHYLAMMONIO) PROPYL ETHER, CHLORIDE		65497-29-2	Y	100

### SECTION 4 :: FIRST AID MEASURES

#### FIRST AID MEASURES FOR ACCIDENTAL:

##### Eye Exposure:

Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention if irritation develops or persists or if visual changes occur.

##### Skin Exposure:

In case of contact, wash with plenty of soap and water. Seek medical attention if irritation develops or persists.

##### Inhalation:

Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardio-pulmonary resuscitation). Seek medical attention.

##### Ingestion:

Do not induce vomiting, unless directed to do so by a physician. If victim is conscious and alert, wash out mouth with water and keep at rest. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side. Seek medical attention.

#### MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis.

#### NOTES TO PHYSICIAN:

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Treat symptomatically. No specific antidote available.

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### SECTION 5 :: FIRE FIGHTING MEASURES

#### FIRE HAZARD DATA:

##### Flash Point:

> 93 C (200 F). Flammability Class: WILL BURN.

##### Method Used:

Setaflash Closed Cup

Flammability Limits (vol/vol%):      Lower:      Upper:  
    No Data      No Data

##### Extinguishing Media:

Recommended (small fires): carbon dioxide, dry chemical, Recommended  
(large fire): water, aqueous foam.

##### Special Fire Fighting Procedures:

Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

##### Unusual Fire and Explosion Hazards:

Product will burn under fire conditions. Like all organic and most dry chemicals, as a powder or dust, this product (when mixed with air in critical proportions and in the presence of an ignition source) may present an explosion hazard.

Hazardous Decomposition Materials (Under Fire Conditions):  
oxides of carbon

##### Dust Explosivity Data:

Explosibility Index .	> 0.01	Type of Explosion is Rated WEAK.
Ignition Sensitivity .	< 0.1	
Explosion Severity .	< 0.7	
Cloud Ignition Temp .....	510 C (950 F)	
Min Cloud Ignition Energy .	840 milliJoules	
Layer Ignition Temp .	199 C (390 F)	
Max. Explosion Pressure .....	No Data	
Max. Rate of Pressure Rise ..	No Data	
Min. Explosion Concentration.	0.3 oz/ft <sup>3</sup>	



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### **SECTION 6 :: ACCEDENTAL RELEASE MEASURES**

Evacuation Procedures and Safety:

CAUTION: Spilled material may become slippery when wet. Do not leave traces of product on floors, ladders, etc., as this may present a slipping hazard. Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

Containment of Spill:

Follow procedure described below under Cleanup and Disposal of Spill.

Cleanup and Disposal of Spill:

Dry Material: Sweep UP and place in an appropriate closed container (see Section 7: Handling and Storage). Use non-sparking tools. Avoid creation of dusty conditions. Wet Material: Absorb with an inert absorbent. Shovel UP into an appropriate closed container (see Section 7: Handling and Storage).

Environmental and Regulatory Reporting:

Do not flush to drain. Prevent material from entering public sewer system or any waterways. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

### **SECTION 7 :: HANDLING AND STORAGE**

Minimum/Maximum Storage Temperatures:

Not Available

Handling:

Avoid breathing dusts. Avoid direct or prolonged contact with skin and eyes. Use nonsparking tools and grounded/bonded equipment and containers when transferring.

THIS PRODUCT MAY PRESENT A DUST EXPLOSION HAZARD.

It is recommended that all dust control equipment and material transport systems involved in handling of this product contain explosion relief vents or explosion suppression system or an oxygen deficient environment. In addition, all conductive elements of the system that contact this material should be electrically bonded and grounded. This powder should not be flowed through non-conductive ducts or pipes. Use only appropriately classed electrical equipment.

Storage:

Store in closed containers. Store in an area that is dry,

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well-ventilated, away from ignition sources, away from incompatible materials (see Section 10. Stability and Reactivity).

### SECTION 8 :: SPECIAL PROTECTION INFORMATION

#### Introductory Remarks:

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

#### Exposure Guidelines:

Exposure limits represent regulated or recommended worker breathing zone concentrations measured by validated sampling and analytical methods, meeting the regulatory requirements. The following limits apply to this material, where, if indicated, S=skin and C=ceiling limit.

#### PARTICULATES NOT OTHERWISE REGULATED RESPIRABLE FRACTION

Notes	TWA	STEL
OSHA	5 mg/cu m	

#### PARTICULATES NOT OTHERWISE REGULATED TOTAL DUST

Notes	TWA	STEL
OSHA	15 mg/cu m	

#### Engineering Controls:

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: wet processing methods to reduce dust generation.

#### Respiratory Protection:

When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.



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Under normal conditions, in the absence of other airborne contaminants, the following devices should provide protection from this material UP to the conditions specified by the appropriate OSHA, WHMIS or ANSI standard's): Air-purifying Chalf-mask/full-face) respirator with cartridges/canister approved for use against dusts, mists and fumes.

### Eye/Face Protection:

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles.

### Skin Protection:

Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance.

### Work Practice Controls:

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- (1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- (2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- (3) Wash exposed skin promptly to remove accidental splashes or contact with this material.

## **SECTION 9 :: PHYSICAL AND CHEMICAL PRPERTIES**

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product Information phone number in Section 1 for its exact specifications.

### Physical Appearance:

off-white powder solid.

### Odor:

bean-like odor.

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pH:

9 to 11 at 1 wt/wt%.

Specific Gravity:

1.3 at 25 C (77 F).

Water Solubility:

gels

Melting Point Range:

Not Available

Boiling Point Range:

Not Available

Vapor Pressure:

Not Available

Vapor Density:

Not Available

Viscosity:

viscosity (centipoises) : 3000 to 4000 cps at 25 C (77 F).

Octanol/Water Partition Coefficient:

Not Available

### SECTION 10 :: STABILITY AND REACTIVITY

Chemical Stability:

This material *is* stable under normal handling and storage conditions described in Section 7.

Conditions To Be Avoided:

dusting conditions  
extreme heat  
open flame  
spark

Materials/Chemicals To Be Avoided:

strong *oxidizing* agents

The Following Hazardous Decomposition Products Might Be Expected:

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Decomposition Type: thermal  
oxides of carbon

Hazardous Polymerization Will Not Occur.

Avoid The Following To Inhibit Hazardous Polymerization:  
not applicable





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### SECTION 11 :: TOXICOLOGICAL INFORMATION

Acute Eye Irritation:

No test data found for product.

Acute Skin Irritation:

No test data found for product.

Acute Dermal Toxicity:

No test data found for product.

Acute Respiratory Irritation:

No test data found for product.

Acute Inhalation Toxicity:

No test data found for product.

Acute Oral Toxicity:

No test data found for product.

Chronic Toxicity:

This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens.

No additional test data found for product.

### SECTION 12 :: ECOLOGICAL INFORMATION

Ecotoxicological Information:

No data found for product.

Chemical Fate Information:

No data found for product.

### SECTION 13 :: DISPOSAL CONSIDERTAIONS

Waste Disposal Method:

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of

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this material.

Container Handling and Disposal:

Any containers or equipment used should be decontaminated immediately after use.

EPA Hazardous Waste - NO

### SECTION 14 :: TRANSPORT INFORMATION

Transportation Status: IMPORTANT! Statements below provide additional data on listed transport classification

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

US DOT:

Hazard Class ..... 9

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Technical Shipping Name: (GUAR GUM, 2-HYDROXY-(3-TRIMETHYLAMMONIUM)-PROPYL, CHL

ID Number UN3077

Packing Group III

Emergency Guide #.... 171

DOT Marine Pollutant

IMO:

Hazard Class ..... 9

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Technical Shipping Name: (GUAR GUM, 2-HYDROXY-(3-TRIMETHYLAMMONIUM)-PROPYL, CHL

ID Number UN3077

Packing Group III

IATA:

Hazard Class ..... 9

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Technical Shipping Name: (GUAR GUM, 2-HYDROXY-(3-TRIMETHYLAMMONIUM)-PROPYL, CHL

ID Number UN3077

Packing Group III

IMO Marine Pollutant

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### SECTION 15 :: REGULATORY INFORMATION

Inventory Status	Status
Inventory	
UNITED STATES (TSCA)	Y
CANADA (DSL)	Y
EUROPE (EINECS/ELINCS)	P
AUSTRALIA (AICS)	Y
JAPAN (MITI)	Y
SOUTH KOREA (KECL)	Y

Y = All ingredients are on the inventory.

E = All ingredients are on the inventory or exempt from listing.

P = One or more ingredients fall under the polymer exemption or are on the no longer polymer list. All other ingredients are on the inventory or exempt from listing.

N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing.

#### FEDERAL REGULATIONS

##### Inventory Issues:

All functional components of this product are listed on the TSCA Inventory.

##### SARA Title III Hazard Classes:

Fire Hazard - NO

Reactive Hazard - NO

Release of Pressure - NO

Acute Health Hazard - YES

Chronic Health Hazard - NO

##### STATE REGULATIONS:

This product does not contain any components that are regulated under California Proposition 65.



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### SECTION 16 :: OTHER INFORMATION

National Fire Protection Association Hazard Ratings--NFPA (R) :

2 Health Hazard Rating--Moderate

1 Flammability Rating-- Slight

0 Instability Rating--Minimal

National Paint & Coating Hazardous Materials Identification System--HMIS (R) :

2 Health Hazard Rating--Moderate

1 Flammability Rating--Slight

0 Reactivity Rating--Minimal

Reason for Revisions:

Change and/or addition made to *Section 14*.

#### Disclaimer

The information contained in this Certificate of Analysis and Material Safety Data Sheet are obtained from current and reliable sources. As the ordinary or otherwise use(s) of this product is outside the control of Ingredients To Die For, no representation or warranty, expressed or implied is made as to the effect(s) of such use(s) (including damage or injury), or the results obtained.

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