



## **CHEMSYNTH CORPORATION**

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# **Material Safety Data Sheet**

## **GUAR GUM POWDER**

Product and Supplier Description Trade Name: Guar Gum Powder INCI Name: Hydroxypropyl Guar Hydroxypropyltrimonium Chloride

### **2. Hazards Identification**

- No known health hazards and dangerous reactions at normal use.
- The product is not classified as hazardous according to Regulation (EC) 1272/2008, or according to EC Directives 67/548 / EEC or 1999/45 / EC. Other hazards which do not result in the classification: • May cause eye irritation. • The dust may irritate the respiratory system. • May form explosive dust-air mixture. • Flow, agitation, etc. can generate static electricity, which can occur by swirling, pneumatic transport, pouring, reeking etc. • Hazardous reactions may occur on contact with certain chemicals. (See Section 10 Materials to be avoided).

### **3. Composition and Ingredient Information**

Chemical characterization ]2 Substance / Preparation: Natural polymer based on guar gum. Gels with water. INCI name: Hydroxypropyl Guar Hydroxypropyltrimonium Chloride. Chemical name: Guar gum, 2-hydroxypropyl 2-hydroxy-3- (trimethylammonio) propyl ether, chloride. CAS No: 71329-50-5 EC Number:

- Information on Components and Impurities: No dangerous ingredients according to Regulation (EC) 1907/2006. Other: The product does not contain preservatives. Moisture: Max 11.5%

#### **4. First Aid Measures**

Description of first aid measures General advice: • Show this safety data sheet to the doctor. • Persons providing first aid must protect themselves. • Place contaminated clothing in a sealed bag for disposal. Inhalation: Remove to fresh air and if irritation develops seek medical assistance. Skin Contact: • Remove contaminated clothing and shoes immediately. • Wash thoroughly with soap and water. • Seek medical attention if irritation develops Eyes Contact: Hold eyes open, rinse with copious amounts of water for at least 15 minutes and if irritation persists seek medical assistance. Ingestion: • Do NOT induce vomiting. • Rinse mouth with water and spit out, if large amounts are ingested. • Guar meal swells with water. • Drink plenty of water and seek medical advice. Most important symptoms and effects, both acute and delayed: No information available. Indication of immediate medical attention and special treatment required Notes to physician: Symptomatic treatment.

#### **5. Fire Fighting Measures**

Extinguishing Equipment: Carbon Dioxide, Powder, Foam, Water spray. Unsuitable extinguishing media: Full water jet. Special hazards arising from the substance or mixture The following substances may release in case of fire: • Risk of dust explosion. • Toxic fire gases, carbon oxides and nitrogen oxides (NOx). Advice for firefighters: • Protective equipment. • Wear breathing apparatus if necessary. Material Safety Data Sheet (F) 3 • Full protective suit. Additional information: Collect contaminated firefighting water separately, must not be discharged into drains.

#### **6. Measures in case of accidental release Personal precautions, protective measures and emergency procedures:**

• Remove all ignition sources. • Avoid breathing dust. • Avoid contact with eyes and skin. • Use appropriate protective equipment. • Respirator with a particle filter (EN 143) • Tightly sealed goggles. • Wear suitable protective gloves. Environmental precautions: Avoid discharge into drains, groundwater and waterways. Methods and materials for containment and cleaning: • If possible, avoid spraying water on the damaged packaging or packaging crushed. • Shovel or sweep up. • Keep in suitable, closed containers for disposal. • Wash with water and mop up. Other Information: It forms slippery / greasy layers with water. Reference to other sections: • See Section 7 for information on safe handling. • See Section 8 for information on personal protection when handling waste. • See Section 13 for disposal information.

#### **7. Handling and Storage Precautions for safe handling**

• Provide sufficient air exchange and / or exhaust in work rooms. • Ground equipment. • Prevent electrostatic charge. • Avoid dust formation. • Keep away from fire, sparks and hot surfaces. • Cleaning procedures must be established to ensure that dust does not accumulate on surfaces. • Handle in accordance with good industrial hygiene and safety practice. Conditions for safe storage, including any

incompatibilities: • Store in cool, dry conditions in original packaging in a well-ventilated place. • Protect from moisture. • Keep away from open flames, hot surfaces and sources of ignition. • Keep away from incompatible materials. See section 10 - Materials to avoid. Material Safety Data Sheet (F) 4

#### **8. Exposure Controls/Personal Protection Control parameters:**

It contains no substances with occupational exposure limit values. Exposure: Technical precautions adequate general and local exhaust ventilation. Hygiene measures: • Avoid contact with eyes, skin. • Regular cleaning of equipment, work area and clothing. • Possibility of eyewash and safety shower should be in workplace. • Do not eat, drink, smoke or sniff while working. • Wash hands before breaks and after work. Personal protective equipment: Use personal protective equipment if required. Eye protection: Goggles. Hand protection: • Where there is a risk of contact with hands, use appropriate gloves. • The selected protective gloves have to satisfy the requirements of EU Directive 98/686 / EEC and the standard EN 374 derived from it. Skin protection: • Choose body protection according to the amount and concentration of the dangerous substance in the workplace. • Use clean, well-maintained personal protective equipment. Respiratory: In case of dust formation use a respirator with approved filter.

#### **9. Physical and Chemical Properties Physical State:**

Fine powder. Colour: White to light yellow. Odour: Characteristic. Melting point: 170 ° C Flash Point: Not applicable. Self-ignition temperature: 170 ° C. Relative self-ignition temperature for solids. Oxidising properties: Not considered as oxidizing. pH at 20 ° C: 8.5 to 10.5 (1% water solution). AN2118. Solubility: • Solubility in water. • Insoluble in alcohol, and oils. Bulk density: 700 kg / m<sup>3</sup> Viscosity at 25 ° C: 300 - 1000 mPas (1% solution). Brookfield RVT 20 rpm, the coil 2, after equilibration at 25 ° C for 1 h. AN2118. Particle size: 50 – 90 µm AN2013.

#### **10. Stability and Reactivity Reactivity:**

No further relevant information available. Chemical stability: The product is stable under normal conditions. Materials to avoid: • Strong oxidizing agents. Material Safety Data Sheet (F) 5 • Strong bases. • Strong acids. • Acid chlorides and anhydrides. Conditions to avoid: • Avoid moisture. • Keep away from open flames, hot surfaces and sources of ignition. Hazardous decomposition products: No further relevant information available.

#### **11. Toxicological Information**

Information on toxicological effects Acute toxicity Ingestion: Oral rat LD50: > 2000 mg / kg. Reference manufacturers, internal report. Inhalation: No further relevant information available. Skin: No further relevant information available. Corrosion / Irritation Skin rabbit: No skin irritation. Reference manufacturers, internal report. Eyes: Particles in the eyes may cause irritation and redness, mainly due to mechanical irritation. Rabbit: Mild eye irritation. Reference manufacturers, internal report. Inhalation: Inhalation of dust may cause irritation of nose, throat and respiratory tract. Sensitisation Skin / airways guinea pig: No sensitization of the skin. Magnusson and Kligman. Reference manufacturers,

internal report. Certain reactions were observed in susceptible individuals by inhalation. By analogy  
Published data. Carcinogenicity: No data available. Germ cell: No data available. Reproductive toxicity:  
No data available. Repeated dose toxicity: No data available. STOT • Specific target organ toxicity - single  
exposure: No data available. • Specific target organ toxicity - repeated exposure: No data available.  
Other information: The Swedish Chemicals Agency has established the following limits to describe the  
degree of health harmfulness (KIFS 2001: 3 Appendix 3). LD50 oral rat: Very toxic by ingestion: LD50 oral  
rat 100 mg / l. Reference manufacturers, internal report. Toxicity to daphnia and other aquatic  
invertebrates Daphnia carinata (water fleas): EC 50 - 48 hours: 282 mg / l. Reference manufacturers,  
internal report. Toxicity to aquatic plants Pseudokirchneriella subcapitata: EC 50 - 96 hours: > 1000 mg .

## **12. Ecological Information**

Toxicity Effects on the aquatic (including sediment) Toxicity to fish (rainbow trout): LC50 - 96 hours :>  
100 mg / l. Reference manufacturers, internal report. Toxicity to daphnia and other aquatic  
invertebrates Daphnia carinata (water fleas): EC 50 - 48 hours: 282 mg / l. Reference manufacturers,  
internal report. Toxicity to aquatic plants Pseudokirchneriella subcapitata: EC 50 - 96 hours: > 1000 mg /  
l. Reference manufacturers, internal report. Ecotoxicity assessment product has no known adverse  
effects on the aquatic organisms tested. Persistence and degradability Biodegradability: Not  
biodegradable. Ultimate aerobic biodegradability 0% - 28 d. OECD TG 302. Reference manufacturers,  
internal report. Bioaccumulative Bioconcentration factor (BCF): Not bioaccumulable

## **13. Disposal Considerations Waste treatment:**

- Small quantities are taken care of with normal household waste.
- Consult local authorities for waste disposal.
- Dispose of the product at a rubbish tip.

## **14. Transport Information**

Not classified as hazardous material according to transport regulations for all modes of transport (ADR, RID, ADN, IMDG, IATA / ICAO).

## **15. Regulatory Information**

- The product is not classified as hazardous according to Regulation (EC) 1272/2008, or according to EC Directives 67/548 / EEC or 1999/45 / EC.
- The product is not labelled according to current Swedish regulations for health and fire hazard. Material Safety Data Sheet (F) 7

## **16. Other Information**

The information contained herein is accurate to the best of our knowledge at the time and on the date shown from a variety of sources. No liability can be accepted arising out of the use, application or processing of this product. It is the users' responsibility to determine the safe conditions for use of this product.