

# Material Safety Data Sheet

## Welan Gum

### Section 1 - Chemical Product and Company Identification

**Product Name:** Welan Gum

**CAS NO.:** 96949-22-3

**Manufacturer/Supplier:**

Tianjin Realet Chemical Technology Co., Ltd.

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### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
96949-22-3	Welan Gum	--	Unlisted

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Appearance And Odor: white to tan powder with slight odor

D.O.T. Hazard Classification: Non-hazardous material.

OSHA Hazard: Warning: Combustible dust. Ensure appropriate electrical classification and avoidance of ignition sources in dusty environments. Handle in a manner consistent with good industrial hygiene practices--avoid creating or inhaling aerosols of this or any other material.

Potential Health Effects:

Likely Routes Of Exposure: Skin contact and inhalation

Eye Contact: No more than slightly irritating based on toxicity studies. The dry powder may cause foreign body irritation in some individuals.

Skin Contact: No more than slightly toxic or slightly irritating based on toxicity studies. Prolonged contact with the dry powder may cause drying or chapping of the skin.

Inhalation: Inhalation of the dust may cause coughing and sneezing. Ingestion: Is not toxic if swallowed based on toxicity studies. No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed.

Refer to Section 11 for toxicological information.

### Section 4 - First Aid Measures

IF IN EYES OR ON SKIN, immediately flush the area with plenty of water. If easy to do, remove any contact lenses. Remove contaminated clothing. Get medical attention if irritation persists. Wash clothing before reuse.

IF INHALED, immediate first aid is not likely to be required. However, if symptoms occur, remove to fresh air. If discomfort persists, contact a physician. Remove material from eyes, skin and clothing.

IF SWALLOWED, immediate first aid is not likely to be required. A physician or Poison Control Center can be contacted for advice.

## Section 5 - Fire Fighting Measures

Flash point: Not applicable

Hazardous products of combustion: Carbon dioxide, carbon monoxide

Extinguishing media: In case of fire, use water, dry chemical, CO<sub>2</sub>, or alcohol foam.

Unusual fire and explosion hazards: This material as normally packaged and handled can contain sufficient fines to form an explosive mixture if dispersed in a sufficient quantity of air. Surfaces that may be covered with this product will become extremely slippery upon application of water.

Fire fighting equipment: Fire fighters and others exposed to products of combustion should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

## Section 6 - Accidental Release Measures

In case of spill, do not blow material. Use vacuum equipment designed specifically for handling combustible dusts.

NOTE - The use of water wash down is not recommended unless the spilled material is already wet. Wet material on a walking surface will be extremely slippery. Wet spills should be thoroughly flushed with water until non-slippery.

Refer to Section 13 for disposal information and Section 15 for reportable quantity information.

## Section 7 - Handling and Storage

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. THESE PRACTICES INCLUDE AVOIDING UNNECESSARY EXPOSURE AND REMOVAL OF MATERIAL FROM EYES, SKIN, AND CLOTHING.

Keep away from heat, sparks and flame. Avoid creating dust cloud in handling transfer and clean up.

## Section 8 - Exposure Controls, Personal Protection

EYE PROTECTION: This product does not cause significant eye irritation or eye

toxicity requiring special protection. Use good industrial practice to avoid eye contact.

**SKIN PROTECTION:** Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

**RESPIRATORY PROTECTION:** Avoid breathing dust. Use NIOSH approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH or the manufacturer. Respiratory protection programs must comply with 29 C.F.R. 1910.134. **VENTILATION:** Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits (see below). The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment.

**AIRBORNE EXPOSURE LIMITS:**

OSHA has not established specific exposure limits for this material. However, OSHA has established limits for particulates not otherwise regulated (PNOR) which are the least stringent exposure limits applicable to dusts.

OSHA PEL ACGIH TLV

15 mg/m<sup>3</sup> (total dust) 8-hr TWA not established

5 mg/m<sup>3</sup> (respirable) 8-hr TWA not established

## Section 9 - Physical and Chemical Properties

**Appearance:** white to tan powder

**pH:** approximately neutral (as a 1% solution)

**Solubility in Water:** soluble, forming viscous solutions, becoming a paste at concentrations greater than about 5%

**NOTE:** These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

## Section 10 - Stability and Reactivity

**Stability:** Product is stable under normal conditions of storage and handling. Store in a cool, dry place to maintain product performance.

**Materials to avoid:** Strong oxidizers

**Hazardous decomposition products:** Thermal decomposition products may include carbon dioxide and carbon monoxide.

**Hazardous polymerization:** Will not occur

## Section 11 - Toxicological Information

The dry powder may cause foreign body irritation in some individuals. Prolonged contact with the dry powder may cause drying or chapping of the skin. Excessive inhalation of dust may be annoying and can mechanically impede respiration. Due to the hygroscopic properties of the gums, they can form a paste or gel in the airway.

Data from laboratory studies and from the scientific literature on material(s) analogous to this product are summarized.

- Oral - rat LD50: > 5,000 mg/kg (practically nontoxic)
- Inhalation - rat LC50 (4-hr exp.): > 5 mg/l (nominal)
- Eye Irritation - rabbit (not irritating)
- Skin Irritation - rabbit (not irritating)

## Section 12 - Ecological Information

The following data have been classified using the criteria adopted by the European Economic Community (EEC) for aquatic organism toxicity. A legend summarizing the classification scheme appears below.

- 96-hr LC50; fathead minnows: >750 mg/L (practically nontoxic)
- 96-hr LC50; mysid shrimp, using 2 lb./bbl. Welan gum in a standard drilling mud: 75,000 ppm whole mud
- Legend for Aquatic Organism Toxicity (Journal of the European Communities, Annex VII A, Section 5.2.1)

Values	Classifications
LC50 or EC50 < or = 1.0 mg/L	Very Toxic
LC50 or EC50 > 1.0 mg/L and < or = 10 mg/L	Toxic
LC50 or EC50 > 10 mg/L < or = 100 mg/L	Harmful
LC50 or EC50 > 100 mg/L	Practically Nontoxic

- BOD5 is approx. 200mg O2/gram
- COD is approx 1600 mg/O2/gram

## Section 13 - Disposal Considerations

Dispose of in accordance with local, state, and federal regulations. Dry or wet solid material can be landfilled in accordance with local, state, and federal regulations. Liquids may be sewered in accordance with local, state, and federal regulations if care is taken to avoid pluggage or blockage of sewer systems recognizing that these materials are intended to increase viscosity and form gels.

## Section 14 - Transport Information

	<b>US DOT</b>	<b>Canada TDG</b>
<b>Shipping Name:</b>	WELAN GUM	WELAN GUM
<b>Hazard Class:</b>	NONE	NONE
<b>UN Number:</b>	NONE	NONE
<b>Packing Group:</b>	NONE	NONE
<b>Additional Info:</b>		

## Section 15 - Regulatory Information

SARA Hazard Notification

Hazard Categories Under Title III Rules (40 CFR 370): Not applicable

Section 302 Extremely Hazardous Substances: Not applicable

Section 313 Toxic Chemical(s): Not applicable

CERCLA Reportable Quantity: Not applicable

Refer to Section 11 for OSHA Hazardous Chemical(s) and Section 13 for RCRA classification.

## Section 16 - Additional Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.