

1. Identification

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| Common Name/ Trade Name: Material Uses: | Welan Gum Oilfield Fluid Additive | Revision Date: November 16, 2020 Product Number: N/A |
| Supplier: | FRITZ INDUSTRIES, INC. 500 SAM HOUSTON ROAD MESQUITE, TX 75149 | In Case of Emergency: Week Days: (Monday – Friday 8-5): (972) 285-5471 (800) 955-1323 |
| | | CHEMTREC (7 days a week, 24 hours a day) (800) 424-9300 |

2. Hazard(s) Identification

Classification: Not classified under GHS
Classified as Combustible Dust under OSHA HCS 2012

Labeling: Symbol: Symbol not required
Signal word: WARNING
Hazard Statement: May form combustible dust concentrations in air.
Precautionary Statements: P233 Keep container tightly closed.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P264 Wash skin thoroughly after handling.
P281 Use personal protective equipment as required.

Other hazard information:

Physical/Chemical Hazards: Avoid generating and accumulating dust.
Health Hazards: Material is a nuisance particulate.
Environmental Hazards: No additional hazards

3. Composition and Information on Ingredients

| Chemical Identity | Numbers of Identity | % by Weight |
|--------------------------|----------------------------|--------------------|
| Welan Gum | CAS# 96949-22-3 | 100 % |

4. First Aid Measures

Inhalation: If inhaled, remove from area to fresh air. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical attention. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

Skin Contact: In case of contact, remove contaminated clothing and rinse affected areas with water. If irritation develops and persists, seek medical attention. Launder contaminated clothing before reuse.

Eye Contact: In case of contact, do not rub eyes. Immediately flush eyes with water for at least 15 minutes, keeping eyelids open. If irritation develops and persists, seek medical attention.

Ingestion: Remove material from mouth and rinse with water. Do not induce vomiting. If victim is conscious and alert, give 2 to 4 cups of water. Seek immediate medical attention.

5. Fire and Explosion Data

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| General Information: | This material is not considered flammable or combustible, but accumulated dust, in the presence of an ignition source, may form a potential explosion hazard. |
| Suitable Extinguishing Media: | Use suitable media to extinguish surrounding fire. |
| Unsuitable Extinguishing Media: | None known. |
| Specific Hazards in case of fire: | Oxides of carbon form with thermal decomposition. |
| Special Protective Equipment and Precaution for Fire Fighters: | Full protective clothing and approved self-contained breathing apparatus required for firefighting personnel. |

6. Accidental Release Measures

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| Personal precautions: | Avoid breathing dust. Wear appropriate personal protection equipment (see Section 8). Remove sources of ignition. |
| Environmental precautions: | Prevent from entering waterways and sewers. |
| Methods and materials for containment and cleaning up: | Ventilate area. Isolate and contain spill. Pick-up material in a manner which does not create dust and place in a suitable container for reclamation or disposal. Use non-sparking tools. |

7. Handling and Storage

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| Precautions for safe handling: | Avoid contact with skin and eyes. Avoid breathing dust. Wear appropriate personal protection equipment (see Section 8). Keep away from sources of ignition. Avoid dust accumulation. Take precautionary measures against static discharges. Wash exposed areas thoroughly after handling. |
| Conditions for safe storage, including incompatibilities: | Store in a cool, dry, and well-ventilated area. Keep in a tightly closed container. Keep away from reducing agents and oxidizing agents. |

8. Exposure Controls/Personal Protection**Exposure Limits:**

| Component Name (CAS-No.) | Reference | Limit Values | |
|---|-------------|----------------------------------|----------------------------------|
| Welan Gum CAS# 96949-22-3 | ACGIH (TWA) | Not established | |
| | NIOSH (REL) | Not established | |
| | OSHA (PEL) | Not established | |
| Particulates Not Otherwise Regulated (Nuisance Dust) | ACGIH (TWA) | 10 mg/m ³ (Inhalable) | 3 mg/m ³ (Respirable) |
| | NIOSH (REL) | Not established | |
| | OSHA (PEL) | 15 mg/m ³ (Total) | 5 mg/m ³ (Respirable) |

Ventilation: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne contaminants at minimum levels. It is recommended that all dust control equipment contain explosion relief vents or an explosion suppression system. Ensure that dust-handling systems are designed in a manner to prevent the escape of dust into the work area.

Respiratory protection: Use dust mask or MSHA/NIOSH approved respirator when ventilation is inadequate or user generates dust.

Eye protection: Safety glasses with side-shields or splash goggles.

Skin protection: Chemical-resistant gloves. Clothing should cover arms and legs.

9. Physical and Chemical Properties

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|----------------------------|--------------------------------------|--------------------------------------|----------------|
| Flashpoint: | Not determined | Lower Flammability Limit: | Not determined |
| Auto ignition Temperature: | Not determined | Upper Flammability Limit: | Not determined |
| Boiling Point: | Not determined | Specific Gravity: | 1.45 |
| Melting Point: | Not determined | % Volatile: | Not determined |
| Vapor Pressure, mmHg: | Not determined | Evaporation Rate (Water=1): | Not applicable |
| Vapor Density (air=1): | Not applicable | Viscosity: | Not determined |
| %Solubility in Water: | Soluble | Octanol/Water Partition Coefficient: | Not applicable |
| Pour Point: | Not applicable | pH(1% slurry in water): | 7 - 9 |
| Odor/Appearance: | Mild odor/White to tan powder | | |

10. Stability and Reactivity Data

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| Chemical Stability: | Product is stable under recommended conditions of use and storage. |
| Possibility of hazardous reactions: | Hazardous reaction will not occur under recommended conditions of use and storage. |
| Conditions to avoid: | Minimize exposure to moisture. Keep away from sources of ignition. Avoid dust generation and accumulation. |
| Materials to avoid: | Reducing agents and oxidizing agents. |
| Hazardous Decomposition Products: | Thermal decomposition releases oxides of carbon. |

11. Toxicological Information

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| Routes of Exposure: | Skin contact, eye contact, and inhalation. |
| Acute Toxicity: | LD ₅₀ : >5000 mg/kg oral, rat LC ₅₀ : >5 mg/kg, 4 hour, inhalation, rat |
| Skin Corrosion/Irritation: | No data available. |
| Serious Eye Damage/Irritation: | No data available. |
| Respiratory/Skin Sensitization: | No data available. |
| Germ cell Mutagenicity: | No data available. |
| Carcinogenicity: | Not classified as a carcinogen. |
| Reproductive toxicity: | No data available. |
| STOT, SE: | No data available. |
| STOT, RE: | No data available. |
| Other Chronic Toxicity: | Prolonged contact may cause drying or chapping of skin. |

12. Ecological Information

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| Persistence and degradability: | Readily biodegradable in fresh and seawater. |
| Bio-accumulative potential: | No data available. |
| Mobility: | No data available. |
| Aquatic Toxicity: | |

| Test | Results | Comments |
|---|---------------------------------------|----------|
| Fathead minnow (<i>Pimephales promelas</i>) | LC ₅₀ : >750 mg/l, 96-Hour | OECD 203 |

13. Disposal Considerations

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| Waste Disposal: | Dispose whatever cannot be reclaimed can be disposed in accordance to local, state, and federal regulations. |
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14. Transport Information

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| US DOT Classification: | Non-hazardous material |
| UN number: | Not applicable. |
| UN proper shipping name: | Not applicable. |
| Transport hazard class: | Not applicable. |
| Packing group: | Not applicable. |

15. Other Regulatory Information**US Regulations**

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| Inventory Status: | Components are listed on TSCA inventory or are exempt. |
| SARA 302 EHS Chemicals: | This material does not contain any SARA extremely hazardous substances. |
| SARA (311/312) Hazard Categories: | No hazards listed. |
| SARA 313: | This material does not contain any SARA 313 chemicals. |
| EPA CERCLA/Superfund Reportable Spill Quantity: | This material does not contain any CERCLA regulated chemicals. |

International Inventories

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| Australia HSIS: | Not listed |
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16. Other Information

Abbreviations and acronyms:

ACGIH: American Conference of Industrial Hygienists
CAS: Chemical Abstract Service
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act
EHS: Extremely Hazardous Substances
EPA: Environmental Protection Agency
GHS: Globally Harmonized System
HMIS: Hazardous Materials Identification System
HSIS: Hazardous Substances Information System
LC₅₀: Lethal Concentration, half maximal
mg/Kg: Milligrams per Kilogram
mg/L: Milligrams per Liter
mg/m³: Milligrams per Cubic Meter NFPA:
National Fire Protection Association
NIOSH: National Institute for Occupational Safety and Health
OECD: Organization for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
PPE: Personal Protective Equipment
REL: Recommended Exposure Limit
SARA: Superfund Amendments and Reauthorization Act
STEL: Short-term exposure limit
STOT, RE: Specific Target Organ Toxicity, Repeated Exposure
STOT, SE: Specific Target Organ Toxicity, Single Exposure
TSCA: Toxic Substances Control Act
TWA: Time weighted average

Additional Information:

HMIS (U.S.A.): Health 0, Flammability 1, Reactivity 0, Protective Equipment e
NFPA (U.S.A.): Health 0, Flammability 1, Reactivity 0

Revisions:

Reviewed SDS, no revisions made. (8/1/2017)

Supersedes:

May 16, 2014

Prepared by: Michael Carlo

Preparation date: August 1, 2017

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End of SDS