

Safety Data Sheet

ULTRA SEAL® TG

Date of Issue : 18.04.2023

Replaces : 17.03.2018

Valid no longer than : 19.04.2028

1. Chemical Product and Company Identification

Supplier : Well Engineering & Technology Sdn Bhd 6.07 Level 6 Menara Hap Seng Jalan P. Ramlee 50250 Kuala Lumpur	Trade Name : ULTRA SEAL® TG Chemical Family : Cellulose
Telephone Number: Tel : +603 2022 0803 Email : welltech@welltechengineering.com Emergency contact: 019 – 356 6035 (Phil Navage)	Chemical / Technical Nature : Oil well drilling fluid additive. Lost circulation material.

HMIS Rating

Health : 1 * Flammability : 1 Physical Hazard : 0 PPE : E
HMIS Key : 4 =Severe, 3=Serious, 2=Moderate, 1=Slight, 0=Minimal Hazard
*Chronic Effects – See Section 11. See Section 8 for Personal Protective Equipment Recommendations.

2. Composition / Information on Ingredients

Ingredient	CAS NO	WT%	Ingredient Comments
Cellulose	9004-34-6	99-100	N/A
Silica, crystalline quartz	1408-60-7	0.1-1	N/A

3. Hazards Identification

Emergency Overview	Caution! May cause eye, skin, and respiratory tract irritation. Long-term inhalation of particulates may cause lung damage. Cancer hazard. Contains crystalline silica, which may cause lung cancer.
Canadian Regulations	WHMIS Class: D2A
Physical Odor	Mild (Very Faint) Color: Tan
State	Powder, dust
Potential Health Effects	Acute Effects

Eye Contact	May cause mechanical irritation
Skin Contact	May cause mechanical irritation. Long-term contact can cause skin dryness. Inhalation: May cause mechanical irritation.
Ingestion	May cause gastric distress, nausea and vomiting if ingested.
Carcinogenicity & Chronic	Effects: See Section 11 - Toxicological Information.
Routes of Exposure	Eyes. Dermal (skin) contact. Inhalation.
Target Organs	Eyes. Skin. Respiratory System.

4. First Aid Measures

Inhalation	Move person to fresh air. If not breathing, give artificial Respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Dilute with 2 - 3 glasses of water or milk, if conscious. Never give anything by mouth to an unconscious person. If signs of irritation or toxicity occur seek medical attention.
Skin contact	Wash skin thoroughly with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if any discomfort continues.
Eye contact	Promptly wash eyes with lots of water while lifting eyelids. Continue to rinse for at least 15 minutes. Get medical Attention if any discomfort continues.

5. Fire Fighting Measures

Flammable Properties

Flash Point F (C)	Not applicable
Flammable Limits in Air	Lower (%) Not Applicable
Flammable Limits in Air	Upper (%) Not Applicable
Auto-ignition Temperature F(C)	Not Applicable

Flammability Class	Not Applicable
Other Flammable Properties	Particulate may accumulate static electricity. Dusts at sufficient concentrations can form explosive mixtures with air.
Extinguishing Media	Use extinguishing media appropriate for surrounding fire.
Protection of Fire Fighters	
Special Fire Fighting Procedures	Do not enter fire area without proper personal protective equipment including NIOSH/MSHA approved self-contained breathing apparatus. Evacuate area and fight fire from a safe distance. Water spray may be used to keep fire-exposed Containers cool. Keep water run off out of sewers and waterways.
Hazardous Combustion Products	Not determined.

6. Accidental Release Measures

Personal Precautions	Use personal protective equipment identified in Section 8.
Environmental Precautions	Do not allow entering sewer or surface and Subsurface waters. Waste must be disposed of in accordance with federal, state and local laws.
Spill Procedures	Evacuate surrounding area, if necessary. Wet product may create a slipping hazard. Contain spilled material. Avoid the generation of dust. Sweep, vacuum, or shovel and place into closable container for disposal.

7. Handling and Storage

Handling	Put on appropriate personal protective equipment. Avoid contact with skin and eyes. Avoid generating or breathing dust. Product is slippery if wet. Use only in a well ventilated area. Wash thoroughly after handling.
Storage	Store in dry, well-ventilated area. Keep container closed. Store away from Incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and / or stacking.

8. Exposure Controls / Personal Protection

Exposure Limits

Ingredient	CAS NO	Wt. %	ACGIH TLV TWA	OSHA PEL TWA	Other	Notes
Silica, crystalline, quartz	14808-60-7	0.1 - 1	0.05 mg/m ³	see Table Z-3	3NIOSH: 0.05 (R) mg/m ³ TW A 10H day/40H Wk)	(R)
Cellulose	9004-34-6	99 - 100	10 mg/m ³	15 mg/m ³ None (Total); 5 mg/m ³ (Respirable)		

Notes:

(R) Respirable fraction (ACGIH);

Table Z-3: PEL for Mineral Dusts containing crystalline silica are 10 mg/m³/ (%SiO₂+2) for quartz and 1/2 the calculated quartz value for cristobalite and tridymite.

Engineering Controls

Use appropriate engineering controls such as, exhaust ventilation and process enclosure, to ensure air contamination and keep workers exposure below the applicable limits.

Personal Protection Equipment

Eye / Face Protection

Dust resistant safety goggles.

Skin Protection

Wear appropriate clothing to prevent repeated or Prolonged skin contact. Chemical resistant gloves Recommended for prolonged or repeated contact. Use protective gloves made have Neoprene. Nitrile.

Respiratory Protection

Use at least a NIOSH-approved N95 half-mask disposable or reusable particulate respirator (dusk mask). In work environments containing oil mist/ aerosol, use at least NIOSH-approved P95 half-mask disposable or reusable particulate respirator. For exposure exceeding 10 x PEL use a NIOSH-approved N100 Particulate Respirator.

General Hygiene Considerations

Work clothes should be washed separately at the end of each workday. Disposable clothing should be discarded, if contaminated with product.

9. Physical & Chemical Properties

Color	Tan
Odor	Mild (or faint) Physical State : Powder, dust.
pH	Not determined.
Vapor Pressure	Not applicable Vapor
Point	Not determined Melting / Freezing
Point	Not determined Solubility
Specific Gravity (H2O=1)	1.4 – 1.65 at 68 F(20 C)
Evaporation Rate	Not applicable
Odor Threshold (s)	Not determined
Water	Insoluble
Density(Air=1)	Not applicable Boiling

10. Stability & Reactivity

Chemical Stability	Stable
Conditions to Avoid	Keep away from heat, sparks and flame.
Materials to Avoid	Oxidizers.

Hazardous Decomposition for combustion products, see Section 5.

Products :

Hazardous Polymerization	Will not occur
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11. Toxicological Information

Component Toxicological Data

Ingredient	CAS NO	Acute Data
Cellulose	9004-34-6	Oral LD50: >5000 mg/kg (rat); Dermal LD50: >2000 LC50: >5800 m

Ingredient	Component Toxicological Summary
Silica, crystalline, quartz	Crystalline silica is the most widely occurring of all minerals. The most common form of silica is sand. The International Agency for Research on Cancer (IARC) has designated crystalline silica in the form of quartz or cristobalite a Group 1 (carcinogenic to humans). This

	designation was based on an increased risk of lung cancer among crystalline silica exposed workers. IARC did note that carcinogenicity of crystalline silica in humans was not detected in all industrial circumstances studied. Further, carcinogenicity of crystalline silica may be dependent on inherent characteristics of the crystalline silica or external factors affecting its biological activity or distribution of polymorphs. (IARC Vol. 68, 1997, p. 41). The National Toxicology Program (NTP) classifies crystalline silica as "reasonably anticipated to cause cancer in humans" (6th Annual Report on Carcinogens, 1991). Long-term inhalation of crystalline silica can also result in the lung disease, silicosis. Symptoms of this disease include coughing and shortness of breath. (NJ HSFS, January 1996)
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Product Toxicological Information

Long term inhalation of particulate can cause irritation, inflammation and/or permanent injury to the lungs. Illnesses such as pneumoconiosis ("dusty lung"), pulmonary fibrosis, chronic bronchitis, emphysema and bronchial asthma may develop.

12. Ecological Information

Component Ecotoxicity Data	No data available
Product Ecotoxicity Data	Contact M & D Industries of Louisiana, INC E/A Department for available product ecotoxicity data.
Biodegradation	Not determined.
Octanol/ Water Partition Coefficient	Not determined.

13. Disposal Considerations

Waste Classification	Not determined.
Waste Management Under U.S. Environmental Protection Agency (EPA) Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user to determine at the time of disposal, whether the product meets RCRA criteria for the hazardous waste. This is because product uses, transformations, mixtures, processes, etc., may render the resulting materials hazardous. Empty containers retain residues. All labeled	

precautions must be observed.

Disposal Method: Recover and reclaim or recycle, if practical. Should this product become a waste, dispose of in a permitted industrial landfill. Ensure that the containers are empty by the RCRA criteria prior to disposal in a permitted industrial landfill.

14. Transport Information

Shipping Description Not regulated

TDG (Canada):

Shipping Description Not regulated

Hazard Class Not regulated

IMDG:

Shipping Description Not regulated

ICAO/IATA:

Shipping Description Not regulated

15. Regulatory Information

SARA 311/312:

SARA 311/312 Hazard Categories: Delayed (chronic) Health hazard.

Ingredient	SARA313	Cercla RQ	SARA 302/TPQs	CA65 CANCER	CA65 DEV. TOX.	CA 65 REPRO. F	CA 65 REPRO. M
Silica, crystalline, quartz	Not Listed	Not Listed	Not Listed	Carcinogen (airborne particles of respirable size); initial date10/1/88	Not Listed	Not Listed	Not Listed
Cellulose	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

State Comments

Proposition 65: This product contains chemical(s) considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 to cause cancer and/or reproductive toxicity. See table under U.S. Federal and State Regulations for the specific chemicals.

International Inventories

Ingredient	CAS NO	TSCA	DSL	NDSL	EINECS	AICS
Silica, crystalline, quartz	14808-60-7	Listed	Listed	Not Listed	Listed	Listed
Cellulose	9004-34-6	Listed	Listed	Not Listed	Listed	Listed

Inventory Comment

"Listed" indicates the component is listed or exempt from listing on the chemical inventory.

Canadian Regulations

Controlled Products Regulations Statement: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS Class: D2A

16. Other Information

The following sections have been revised: N/A.

Disclaimer:

All the recommendations and suggestions herein concerning our product are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity and suitability for this own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by M&D Industries of Louisiana, Inc. As to the effects of such use, the results to be obtained, or the safety and toxicity of the product nor does M&D Industries of Louisiana, Inc. Assume any liability arising out of use by others. Nor is the information herein to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.