



# MATERIAL SAFETY DATA SHEET

## SECTION I: IDENTIFICATION OF PRODUCT

**PRODUCT NAME:** Salt Gel

**PRODUCT USE:** Oil Well Fluid Additive **CAS No.** 63800-37-3

**CHEMICAL FAMILY:** Attapulgite Clay

### WORK PLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

**WHMIS CLASSIFICATION:** D-2 (A)

**WORK PLACE HAZARD:** Potential Carcinogen; Contains Free Silica

### TRANSPORTATION OF DANGEROUS GOODS (TDG)

**SHIPPING NAME:** Not Dangerous Goods

**TDG CLASSIFICATION:** N/A

**UN NUMBER (PIN):** N/A

**PACKING GROUP:** N/A

## SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	CAS NUMBER	LD(50) Oral-Rat	OSHA PEL	ACGIH TLV
Crystalline Silica (S102)	<1.0%	7631-86-9	N/A	0.1 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>
Total dust	N/A	N/A	N/A	15 mg/m <sup>3</sup>	N. D.
Respirable	N/A	N/A	N/A	5 mg/m <sup>3</sup>	N. D.

Where cristobalite or tridymite are present use 1/2 or the PEL or TLV value for crystalline quartz.

## SECTION III: TOXICOLOGICAL PROPERTIES

**ROUTE OF ENTRY:**  SKIN       EYE CONTACT       INHALATION       INGESTION

**CONDITIONS AGGRAVATED BY EXPOSURE:** Pulmonary function may be reduced by inhalation of respirable crystalline silica that may be contained within Sepiolite Clay dust. Also lung scarring produced by such inhalation may lead to progressive massive fibrosis of the lung which may aggravate other pulmonary tuberculosis. Progressive massive fibrosis may be accompanied by right heart enlargement, heart failure, and pulmonary failure. Smoking aggravates the effects of exposure.

**EFFECTS OF OVEREXPOSURE:** May be harmful if inhaled in sufficient quantities. Prolonged exposure to Sepiolite Clay dust may cause a relatively benign lung disease, though there is a risk of the development of massive fibrosis. Repeated/prolonged exposure to respirable crystalline quartz which may be contained in Sepiolite Clay dust may cause delayed (chronic) lung injury (silicosis). Silicosis is a form of disabling pulmonary fibrosis which can be progressive and may lead to death. Acute, or rapidly developing silicosis has not been observed in Sepiolite Clay dust exposures.

**EYE CONTACT:** Mechanical irritant.

**SKIN CONTACT:** Possible drying resulting in dermatitis.



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**INGESTION:** No adverse effects.

**INHALATION:** Acute exposure to dust levels exceeding the PEL may cause irritation of respiratory tract resulting in a dry cough. Chronic exposure to free silica containing airborne sepiolite dust, where levels are higher than TLV's, may lead to development of silicosis or other respiratory problems. Persistent dry cough and laboured breathing upon exertion are symptomatic.

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## SECTION IV: FIRST AID MEASURES

**SKIN CONTACT:** Wash with soap and water until clean.

**EYE CONTACT:** Flush with water until irritation ceases.

**INGESTION:** No adverse effects.

**INHALATION:** Move to area free from dust. If symptoms or irritation persist contact physician. Inhalation may aggravate existing respiratory illness.

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## SECTION V: PHYSICAL DATA

**APPEARANCE AND ODOUR:** Light grey, tan or reddish tan, granular powder, earthy odour when wet

**SPECIFIC GRAVITY:** 1.0 - 2.4 g/cc

**BOILING POINT (°C):** >537°C

**MELTING POINT (°C):** N/A

**pH:** 7.0-8.3

**SOLUBILITY IN WATER:** Insoluble

**PERCENT VOLATILE BY VOLUME:** N/A

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## SECTION VI: FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT:** N/A

**EXTINGUISHING MEDIA:** Any media can be used for packaging.

**SPECIAL FIRE FIGHTING PROCEDURES:** Inorganic Mineral/Non-Flammable.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None. Product will not support combustion.

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## SECTION VII: REACTIVITY DATA

**STABILITY:** Stable [XX] Unstable [ ]

**INCOMPATIBILITY (CONDITIONS TO AVOID):** Avoid chronic inhalation of dust

**CONDITIONS OF REACTIVITY:** None



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HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: Will Not Occur [XX] May Occur [ ]

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## VIII: PREVENTIVE MEASURES

### SPECIAL PROTECTION INFORMATION

**RESPIRATORY PROTECTION:** NIOSH/MESA approved respirators for silica bearing dust.

**VENTILATION:** Use local ventilation to maintain PEL's/TLV's.

**PROTECTIVE GLOVES:** Generally not necessary; personal preference.

**EYE PROTECTION:** Suggest goggles.

**OTHER PROTECTIVE EQUIPMENT:** None Required.

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid breathing dust; wear an approved respirator. Avoid eye contact. Use dustless system for handling, storage, and clean up. Do not permit dust to collect on walls, floors, sills, ledges, machinery or equipment. Wash or vacuum clothing which has become dusty. Material may become very slippery when wet.

### STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED

Use dustless methods (vacuum) and place into closable container for disposal, or flush with water. Do not dry sweep. Wear protective equipment. Spilled material may become very slippery when wet with water, grease, oil, gasoline or solvents.

### WASTE DISPOSAL METHOD

Dispose of material in accordance with local ordinances.

## SECTION IX: PREPARATION

THE INFORMATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

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