

SAFETY DATA SHEET

**Section 1: IDENTIFICATION**

<b>Product Name:</b>	Salt Gel Attapulgite
<b>Other Means of Identification:</b>	Hydrated Magnesium Aluminosilicate; Attapulgite Clay, Fuller's Earth
<b>Recommended Use:</b>	Drilling Fluid Additive
<b>Restrictions on Use:</b>	-
<b>Supplier:</b>	Bri-Chem Supply Ltd. 27075 Acheson Road Acheson, AB T7X 6B1
<b>Phone Number:</b>	780-962-9490
<b>Emergency Phone:</b>	CHEMTREC 1-800-424-9300, 24/7

**Section 2: HAZARD(S) IDENTIFICATION**

**Classification**

**Carcinogenicity:** Category 1A

**Specific Target Organ Toxicity (Repeated Exposure):** Category 1



**Label Elements:** Danger

**Hazard Statements:** May cause cancer. Causes damage to lungs through prolonged or repeated exposure.

**Precautionary Statements**

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing. Do not breathe dust.

**Response:** If exposed or concerned: Get medical advice/attention.

**Storage:** Store in accordance with local regulations.

**Disposal:** Dispose of contents/container to an approved waste disposal plant.

**Other Information:** No information available

SAFETY DATA SHEET

**Section 3: COMPOSITION / INFORMATION ON INGREDIENTS**

<b>Substance:</b>	Not applicable			
<b>Mixture</b>				
<b>Common Name:</b>	Attapulgit			
<b>Synonyms:</b>	Hydrated Magnesium Aluminosilicate; Attapulgit Clay; Fuller's Earth.			
<b>Chemical Name</b>	<b>CAS No</b>	<b>Weight - %</b>	<b>Hazardous Material Information Review Act Registry Number (HMIRA Registry #)</b>	<b>Date HMIRA Filed and Date Exemption Granted (If Applicable)</b>
Attapulgit	12174-11-7	95	-	-
Quartz	14808-60-7	5	-	-
Magnesium Oxide	1309-48-4	<1	-	-

**Section 4: FIRST-AID MEASURES**

**Description of First Aid Measures**

<b>General Advice:</b>	If exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.
<b>Inhalation:</b>	Remove to fresh air.
<b>Eye Contact:</b>	Rinse thoroughly with plenty of water, also under the eyelids.
<b>Skin Contact:</b>	Wash skin with soap and water.
<b>Ingestion:</b>	Clean mouth with water and drink afterwards plenty of water.
<b>Most Important Symptoms and Effects both Acute and Delayed</b>	
<b>Symptoms:</b>	Causes damage to organs through prolonged or repeated exposure if inhaled.
<b>Indication of Any Immediate Medical Attention and Special Treatment Needed</b>	
<b>Note to Physicians:</b>	Treat symptomatically

**Section 5: FIRE-FIGHTING MEASURES**

<b>Suitable Extinguishing Media:</b>	Dry chemical, CO2, water spray or regular foam.
<b>Unsuitable Extinguishing Media:</b>	Do not scatter spilled material with high pressure water streams.
<b>Special Hazards Arising from the Chemical:</b>	No information available
<b>Hazardous Combustion Products:</b>	None
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact:</b>	None

**SAFETY DATA SHEET**

**Sensitivity to Static Discharge:** None

**Special Protective Equipment for Firefighters:** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**Section 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures**

**Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.

**Other Information:** Refer to protective measures listed in Sections 7 and 8.

**Methods and Material for Containment and Cleaning Up**

**Methods For Containment:** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up:** Pick up and transfer to properly labeled containers.

**Section 7: HANDLING AND STORAGE**

**Precautions for Safe Handling**

**Advice on Safe Handling:** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation.

**Conditions for Safe Storage, Including any Incompatibilities**

**Storage Conditions:** Store away from incompatible materials.

**Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control Parameters**

**Exposure Limits**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Attapulgite 12174-11-7	TWA: 1 mg/m <sup>3</sup> respirable particulate matter	-	-
Quartz 14808-60-7	TWA: 0.025mg/m <sup>3</sup> respirable particulate matter	TWA: 50 µg/m <sup>3</sup> (vacated) TWA: 0.1 mg/m <sup>3</sup> Respirable dust: (250) /(%SiO <sub>2</sub> + 5) mppcf TWA respirable fraction : (10) /(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA respirable fraction	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust
Magnesium Oxide 1309-48-4	TWA: 10 mg/m <sup>3</sup> inhalable particulate matter	TWA: 15 mg/m <sup>3</sup> total particulate matter	

SAFETY DATA SHEET

Chemical Name	Alberta	British Columbia	Ontario	Quebec
Attapulgite 12174-11-7	-	TWA: 1.0 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 1 fibre/cm <sup>3</sup>
Quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.10 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
Magnesium Oxide 1309-48-4	TWA: 10 mg/m <sup>3</sup> (as fume)	TWA: 10 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup> as respirable dust and fume	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>

**Appropriate Engineering Controls**

**Engineering Controls:** Showers, eyewash stations and ventilation systems.

**Individual Protection Measures, Such as Personal Protective Equipment**

**Eye/Face Protection:** No special protective equipment required.

**Hand Protection:** Wear suitable gloves

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Environmental Exposure Controls:** Avoid release to the environment.

**General Hygiene Considerations:** Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Information on Basic Physical and Chemical Properties**

**Appearance:** Powder

**Physical State:** Solid

**Color:** Yellowish brown to gray

**Odor:** No information available

**Odor Threshold:** No information available

Property	Values	Remarks – Method
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pH	7-10.5 (aqueous solution)	None known
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Melting Point/Freezing Point	No data available	None known
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Boiling Point/Boiling Range	No data available	None known
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Flash Point	No data available	None known
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Evaporation Rate	No data available	None known
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Flammability (Solid, Gas)	Not flammable	None known
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SAFETY DATA SHEET

<b>Flammability Limit in Air</b>		None known
<b>Upper Flammability or Explosive Limits</b>	No data available	
<b>Lower Flammability or Explosive Limits</b>	No data available	
<b>Vapour Pressure</b>	No data available	None known
<b>Vapour Density</b>	No data available	None known
<b>Relative Density</b>	2.4	
<b>Water Solubility:</b>	Insoluble	
<b>Solubility(ies)</b>	No data available	None known
<b>Partition Coefficient</b>	No data available	None known
<b>Autoignition Temperature</b>	No data available	None known
<b>Decomposition Temperature</b>	No data available	None known
<b>Kinematic Viscosity</b>	No data available	None known
<b>Dynamic Viscosity</b>	No data available	None known
<b>Other Information</b>		
<b>Explosive Properties</b>	Not applicable	
<b>Oxidizing Properties</b>	Not applicable	
<b>Softening Point</b>	No information available	
<b>Molecular Weight</b>	No information available	
<b>VOC Content (%)</b>	No information available	
<b>Liquid Density</b>	No information available	
<b>Bulk Density</b>	No information available	

**Section 10: STABILITY AND REACTIVITY**

<b>Reactivity:</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions:</b>	None under normal processing.
<b>Conditions to Avoid:</b>	Dust formation. Incompatible materials.
<b>Incompatible Materials:</b>	Hydrofluoric acid.
<b>Hazardous Decomposition Products:</b>	None known

**Section 11: TOXICOLOGICAL INFORMATION**

**SAFETY DATA SHEET**

**Information on Likely Routes of Exposure**

**Product Information**

**Inhalation:** May cause irritation of respiratory tract.  
**Eye Contact:** Dust contact with the eyes can lead to mechanical irritation.  
**Skin Contact:** Contact with dust can cause mechanical irritation or drying of the skin.  
**Ingestion:** May cause irritation.

**Symptoms Related to the Physical, Chemical and Toxicological Characteristics**

**Symptoms:** Dust may be irritating.

**Acute Toxicity**

**Numerical Measures of Toxicity:** No information available.

**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure**

**Skin Corrosion/Irritation:** Not classified  
**Serious Eye Damage/Eye Irritation:** Not classified  
**Respiratory or Skin Sensitization:** Not classified  
**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

<b>Chemical Name</b>	<b>ACGIH</b>	<b>IARC</b>	<b>NTP</b>	<b>OSHA</b>
Attapulгите 12174-11-7	-	Group 3 (<5 microns)	-	X
Quartz 14808-60-7	A2	Group 1	Known	X

Legend **ACGIH (American Conference of Governmental Industrial Hygienists)**  
 A2 - Suspected Human Carcinogen  
**IARC (International Agency for Research on Cancer)**  
 Group 1 - Carcinogenic to Humans  
 Group 3 - Not Classifiable as to Carcinogenicity in Humans  
**NTP (National Toxicology Program)**  
 Known - Known Carcinogen  
**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**  
 X - Present

**Reproductive Toxicity:** Not classified  
**STOT – Single Exposure:** Not classified  
**STOT – Repeated Exposure:** Not classified  
**Target Organ Effects:** Respiratory system

SAFETY DATA SHEET

**Aspiration Hazard:** Not classified

**Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity:** The environment impact of this product has not been fully investigated.

**Persistence and Degradability:** Not readily biodegradable.

**Bioaccumulation:** No information available.

**Mobility in Soil:** No information available.

**Mobility:** Insoluble in water.

**Other Adverse Effects:** No information available.

**Section 13: DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods**

**Waste from Residues/Unused Products:** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated Packaging:** Do not reuse empty containers.

**Section 14: TRANSPORT INFORMATION**

**DOT:** Not regulated

**TDG:** Not regulated

**MEX:** Not regulated

**IATA:** Not regulated

**IMDG:** Not regulated

**Section 15: REGULATORY INFORMATION**

**Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**

**International Regulations**

**The Montreal Protocol on Substances that Deplete the Ozone Layer:** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants:** Not applicable

**The Rotterdam Convention:** Not applicable

SAFETY DATA SHEET

International Inventories

<b>TSCA:</b>	All components are listed on the TSCA Inventory.
<b>DSL/NDSL:</b>	Complies
<b>EINECS/ELINCS:</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC:</b>	Complies
<b>KECL:</b>	Complies
<b>PICCS:</b>	Complies
<b>AICS:</b>	Complies

**Legend:** **TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/  
European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

US Federal Regulations

<b>SARA 313:</b>	Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.
<b>SARA 311/312 Hazard Categories:</b>	Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.
<b>CWA (Clean Water Act):</b>	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).
<b>CERCLA:</b>	This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.



**SAFETY DATA SHEET**

**US State Regulations**

**California Proposition 65:** This product contains the following Proposition 65 chemicals:

**Chemical Name California Proposition 65**

Quartz - 14808-60-7 Carcinogen

**U.S. State Right-to-Know Regulations**

**US State Regulations:** This product contains the following substances regulated by state right-to-know regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Quartz 14808-60-7	X	X	X
Magnesium Oxide 1309-48-8	-	X	X

**U.S. EPA Label Information**

**EPA Pesticide Registration Number:** Not applicable

**Section 16: OTHER INFORMATION**

NFPA Health Hazards 1 Flammability 0 Instability 0 Physical and Chemical Properties -

HMIS Health Hazards 1\* Flammability 0 Physical Hazards 0 Personal Protection X

**Key or Legend to Abbreviations and Acronyms Used in the Safety Data Sheet**

**Legend Section 8: Exposure Controls/Personal Protection**

TWA – TWA (Time Weighted Average) STEL – STEL (Short Term Exposure Limit)

Ceiling – Maximum Limit Value \* – Skin Designation

**Key Literature References and Sources for Data Used to Compile the SDS**

- U.S. Environmental Protection Agency ChemView Database
- European Food Safety Authority (EFSA)
- EPA (Environmental Protection Agency)
- Acute Exposure Guideline Level(s) (AEGL(s))
- U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
- U.S. Environmental Protection Agency High Production Volume Chemicals
- Food Research Journal
- Hazardous Substance Database
- International Uniform Chemical Information Database (IUCLID)
- Japan GHS Classification
- NIOSH (National Institute for Occupational Safety and Health)
- National Library of Medicine's ChemID Plus (NLM CIP)
- National Toxicology Program (NTP)
- New Zealand's Chemical Classification and Information Database (CCID)

**SAFETY DATA SHEET**

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set RTECS (Registry of Toxic Effects of Chemical Substances)  
World Health Organization

**Disclaimer:**

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**Prepared by:** Bri-Chem Supply Ltd.

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