

Safety Data Sheet

Material Name: Min-U-Gel®, Florigel®, Acti-Sorb®

SDS ID: AM-006_NA

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

Min-U-Gel®, Florigel®, Acti-Sorb®

Synonyms

Hydrated Magnesium Aluminosilicate; Attapulgite; Fuller's Earth

Product Use

Suspension agent, syneresis control, rheological additive, binder

Restrictions on Use

None known.

Details of the supplier of the safety data sheet

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Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Specific target organ toxicity - Repeated exposure - Category 2 (respiratory system)

GHS Label Elements

Symbol(s)



Signal Word

Warning

Hazard Statement(s)

May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement(s)

Prevention

Do not breathe dust/fume/gas/mist/vapours/spray.

Response

Get medical advice/attention if you feel unwell.

Storage

Keep dry.

Store in area of low relative humidity.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other Hazards

Mechanical irritation may occur.

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Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
8031-18-3	Fuller's earth	98
14808-60-7	Quartz	2

Section 4 - FIRST AID MEASURES

Inhalation

Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.

Ingestion

Get medical advice/attention if you feel unwell. Never give anything by mouth to an unconscious or convulsive person.

Most Important Symptoms/Effects

Acute

Mechanical irritation

Delayed

Respiratory system damage

Note to Physicians

Treat symptomatically and supportively.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Regular dry chemical, carbon dioxide, water spray, foam

Unsuitable Extinguishing Media

Do not scatter spilled material with high-pressure water streams.

Special Hazards Arising from the Chemical

Negligible fire hazard.

Hazardous Combustion Products

None

Advice for firefighters

Wear suitable protective clothing.

Fire Fighting Measures

Move container from fire area if it can be done without risk. Avoid breathing dust.

Special Protective Equipment and Precautions for Firefighters

Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment.

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Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up

Stop leak if possible without personal risk. Clean up residue with a high-efficiency particulate filter vacuum. Scoop spilled material into clean, dedicated equipment. Collect spilled material in appropriate container for disposal. Use methods to minimize dust. Avoid sweeping spilled dry material. If sweeping of a contaminated area is necessary, use a dust suppressant agent.

Environmental Precautions

Avoid release to the environment.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Do not handle until all safety precautions have been read and understood. Do not breathe dust. Do not eat, drink, or smoke when using this product. Use methods to minimize dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling.

Conditions for Safe Storage, Including any Incompatibilities

Keep dry. Store in area of low relative humidity.

Store and handle in accordance with all current regulations and standards. Avoid generating dust. Keep separated from incompatible substances.

Incompatible Materials

hydrofluoric acid

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Quartz	14808-60-7
ACGIH:	0.025 mg/m3 TWA respirable fraction
NIOSH:	0.05 mg/m3 TWA respirable dust
	50 mg/m3 IDLH respirable dust
OSHA (US):	((30)/(%SiO ₂ + 2) mg/m3 TWA) total dust ; ((250)/(%SiO ₂ + 5) mppcf TWA) respirable fraction ; ((10)/(%SiO ₂ + 2) mg/m3 TWA) respirable fraction
Mexico:	0.1 mg/m3 TWA LMPE-PPT respirable fraction
Alberta	0.025 mg/m3 TWA respirable particulate
British Colombia	0.025 mg/m3 TWA respirable
Manitoba	0.025 mg/m3 TWA respirable fraction

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New Brunswick	0.1 mg/m3 TWA respirable fraction
Northwest Territories	0.05 mg/m3 TWA respirable fraction
Nova Scotia	0.025 mg/m3 TWA respirable fraction
Nunavut	0.1 mg/m3 TWA respirable mass ; 0.3 mg/m3 TWA (total mass)
Ontario	0.1 mg/m3 TWA (designated substances regulation) respirable
Prince Edward Island	0.025 mg/m3 TWA respirable fraction
Quebec	0.1 mg/m3 TWAEV respirable dust
Saskatchewan	0.05 mg/m3 TWA respirable fraction
Yukon	300 particle/mL TWA

EU - Occupational Exposure (98/24/EC) - Binding Biological Limit Values and Health Surveillance Measures

There are no biological limit values for any of this product's components.

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

There are no biological limit values for any of this product's components.

Engineering Controls

Provide local exhaust ventilation system. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear safety glasses with side shields. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear suitable protective clothing. Wash contaminated clothing before reuse.

Respiratory Protection

If engineering controls do not maintain airborne concentrations to a negligible level, an approved respirator must be worn. Any respirator with a high-efficiency particulate filter.

Glove Recommendations

Wear suitable gloves.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	yellowish brown to gray powder	Physical State	solid
Odor	Not available	Color	yellowish brown to gray
Odor Threshold	Not available	pH	7 - 10.5
Melting Point	Not available	Boiling Point	Not available

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Freezing point	Not available	Evaporation Rate	Not available
Boiling Point Range	Not available	Flammability (solid, gas)	Not flammable
Autoignition	Not available	Flash Point	Not available
Lower Explosive Limit	Not available	Decomposition temperature	Not available
Upper Explosive Limit	Not available	Vapor Pressure	Not available
Vapor Density (air=1)	Not available	Specific Gravity (water=1)	2.4
Water Solubility	(Insoluble)	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Solubility (Other)	Not available
Density	Not available	Physical Form	powder
Molecular Weight	Not available		

Section 10 - STABILITY AND REACTIVITY

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Avoid generating dust. Avoid contact with incompatible materials.

Incompatible Materials

hydrofluoric acid

Hazardous decomposition products

Combustion

None.

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

Lung damage

Skin Contact

Mechanical irritation

Eye Contact

Mechanical irritation

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Ingestion

Irritation, constipation

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Quartz (14808-60-7)

Oral LD50 Rat 500 mg/kg

Immediate Effects

Mechanical irritation

Delayed Effects

Respiratory system damage

Irritation/Corrosivity Data

Mechanical irritation may occur.

Respiratory Sensitization

No information available for the product.

Dermal Sensitization

No information available for the product.

Component Carcinogenicity

Quartz	14808-60-7
ACGIH:	A2 - Suspected Human Carcinogen
IARC:	Monograph 100C [2012] ; Monograph 68 [1997] (Group 1 (carcinogenic to humans))
NTP:	Known Human Carcinogen
DFG:	Category 1 (causes cancer in man, alveola fraction)
OSHA:	Present (respirable size)
NIOSH:	potential occupational carcinogen

Germ Cell Mutagenicity

No information available for the product.

Tumorigenic Data

No data available

Reproductive Toxicity

No information available for the product.

Specific Target Organ Toxicity - Single Exposure

No target organs identified.

Specific Target Organ Toxicity - Repeated Exposure

Respiratory system

Aspiration hazard

No data available.

Medical Conditions Aggravated by Exposure

Respiratory disorders

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Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

No LOLI ecotoxicity data are available for this product's components

Persistence and Degradability

Not readily biodegradable.

Bioaccumulative Potential

No information available for the product.

Mobility

Insoluble in water.

Other Toxicity

No data available.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose in accordance with all applicable regulations.

Section 14 - TRANSPORT INFORMATION

US DOT Information:

Additional information: Not regulated as dangerous goods

TDG Information:

Additional information: Not regulated as dangerous goods

Section 15 - REGULATORY INFORMATION

Canada Regulations

CEPA - Priority Substances List

None of this product's components are on the list.

Ozone Depleting Substances

None of this product's components are on the list.

Council of Ministers of the Environment - Soil Quality Guidelines

None of this product's components are on the list.

Council of Ministers of the Environment - Water Quality Guidelines

None of this product's components are on the list.

U.S. Federal Regulations

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: No **Chronic Health:** Yes **Fire:** No **Pressure:** No **Reactivity:** No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Quartz	14808-60-7	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement

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Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer

Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Quartz	14808-60-7
	1 %

Component Analysis - Inventory

Fuller's earth (8031-18-3)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
Yes	DSL	No	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes	Yes

Quartz (14808-60-7)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes

Section 16 - OTHER INFORMATION

NFPA Ratings

Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Summary of Changes

SDS update: 04/12/2018

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory, EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law, JP - Japan; Kow - Octanol/water partition coefficient; KECI - Korea Existing Chemicals Inventory, KECL - Korea Existing Chemicals List, KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA -



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National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH-Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TCCA – Korea Toxic Chemicals Control Act, TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

Other Information

Disclaimer:

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.