SORBTECH
SORBENT TECHNOLOGIES

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SDS
Safety Data Sheet

Form #: STI-021 Date: revision 004 9/11/2017

Section 1. PRODUCT IDENTIFICATION

Product Identifiers
Product Name: **Florisil® - Grades A, B, PR**
CAS number: 1343-88-0
Product Part Numbers: 09410, 09415, 09420, 09425, 09430, 09435,09500

Synonyms: Magnesium silicate, Silicic acid, magnesium salt.
Recommended use: Chromatography, Laboratory chemicals.
Uses advised against: No information available

Details of the Supplier of the Safety Data Sheet:
Company: Sorbent Technologies
5955 Peachtree Corners East
Norcross, GA 30071 USA
Emergency Telephone Number: 1-866-767-2832

Section 2. HAZARD IDENTIFICATION

United States**:** According OSHA 29 CFR 1910.1200 HCS
Classification of the Substance or Mixture: Based on available data, the classification criteria are not met.
GHS Label Elements, including Precautionary Statements: Not a hazardous substance or mixture.
Emergency Overview: Odorless white powder.
Potential Health Effects: Medical conditions aggravated by exposure: Not expected to be a health hazard.

Response:
Eyes: May cause mild physical irritation.
Skin: May cause irritation with redness and pain. May cause allergic skin reaction.
Ingestion: No adverse effects expected.
Inhalation: May cause irritation of respiratory tract due to drying and abrasive actions of dust. Coughing or shortness of breath may occur in cases of excessive inhalation.
Chronic Effects: No adverse effects expected.
Carcinogenic Effects: IARC: Not listed NTP: Not listed OSHA: Not regulated

Other Hazards Not Otherwise Classified (HNOC): None identified

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization:

Ingredient	CAS No.	EC No.	%
Silicic Acid, magnesium salt	1343-88-0	215-681-6	99—100%

Synonyms: Magnesium silicate
Formula: MgO3Si
Molecular weight: 100.39 g/mol.

Section 4. FIRST AID MEASURES

Description of First Aid Measures
Skin: Wash material off skin with soap and water. Seek medical attention if irritation occurs.
Eyes: Flush with copious amounts of water for 15 minutes. Seek medical attention if irritation occurs.
Ingestion: Give one or two glasses of water to drink. Seek medical attention if gastrointestinal symptoms develop.
Inhalation: Remove to fresh air. Seek medical attention if cough or respiratory symptoms develop.

Most Important Symptoms and Effects, both acute and delayed
No information available

Indication of any immediate medical attention and special treatment needed
Notes to Physician: Treat symptomatically

Section 5. FIRE-FIGHTING MEASURES

Extinguishing Media
Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.
Unsuitable Extinguishing Media: Not applicable
Flash Point: Not applicable
Non-flammable: OSHA Method 16CFR1500.44 (Incorporated by reference in 29CFR1920.1200).
Flammability Limits in Air: LFL and UFL Not Applicable.
Auto ignition temperature: Not Applicable

Advice for Firefighters
General Hazard: Not considered to be a fire hazard, product is not flammable.
Fire Fighting Instructions: Isolate large fires and allow to burn out. Extinguish fire using water fog, fine water spray, carbon dioxide or foam. Avoid stirring up dust clouds.
Fire Fighting Equipment Fire fighting personnel should wear full protective equipment, including self-contained breathing apparatus (SCBA) for all inside fires and large outdoor fires.
Hazardous Combustion Products: Magnesium oxide, silicone oxides. Under certain conditions, any airborne dust be an explosion hazard. Hazard greater as fineness increases.
Special Fire Hazard:

NFPA rating: Health: 0, Flammability: 0, Reactivity: 0,

Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
Avoid dust formation. Avoid breathing vapors, mist or gas.
Environmental Precautions
No special environmental precautions required.

Methods and Material for Containment and Clean-up
If a Spill or Leak Occurs: Clean up spills in a manner that does not disperse dust into the air. Handle in accordance with industrial hygiene and safety practices. These practices include avoiding unnecessary expo sure, and removal from eyes, skin, and clothing. Prevent product from entering drains.
Disposal Method: Avoid dry sweeping and shoveling. Use water spraying/flushing, vacuum or wet sweeping into suitable contains for disposal. Dispose in a facility for non-hazardous wastes. Spent should be disposed of
I n accordance with State and Federal laws.
Container Disposal: Do not reuse empty bags or drums. Dispose of used bags in facility permitted for non-hazardous wastes.

Section 7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling: Avoid prolonged contact with eyes and skin. Do not breath dust. Keep away from ignition sources. Use in well ventilated areas. Protect containers from physical damage. Wash hands after handling.

Conditions for Safe Storage, Including any Incompatibilities

Storage: Store in cool, dry, ventilated area and in closed containers.

Storage class (TRGS 510): Non-combustible Solids

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure Guidelines: This product does not contain any hazardous materials with occupational exposure limits established by the region regulatory bodies.

Component	OSHA PEL	ACGIH TLV	NIOSHI DLH
Silicic acid, magnesium salt (1343-88-0)	5 mg/m3 TWA (respirable dust) 15 mg/m3 TWA (total dust)	None established	None established

Component	Canada Quebec	Canada Ontario TWAEV	Mexico OEL (TWA)
Silicic acid, magnesium salt (1343-88-0)	TWA: 2 mg/m3 (respirable fraction)	TWA: 2 mg/m3 (respirable fraction)	TWA: 10 mg/m3 respirable fraction)

ACGIH is the American Conference of Governmental Industrial Hygienists
OSHA is the Occupational Safety and Health Administration
NIOSH is the National Institute of Occupational Safety and Health
PEL is the Permissible Exposure Limits established by OSHA.
TLV is the Threshold Limit Value a term ACGIH uses to express the maximum airborne concentration of a material to which most workers can be exposed during a normal daily and weekly work schedule without adverse effects.
MSHA is the Mine Safety and Health Administration

Exposure Controls

Engineering Controls: Use local exhaust to control emissions near the source. Ventilation systems should be configured to prevent exceeding the recommended or regulated exposure limits (i.e. OSHA PELs).

Eye Protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Safety glasses with side shields are recommended for any type of handling. Where eye contact or dusty conditions may likely, dust tight goggles are recommended. Have eye washing equipment available.

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Avoid skin contact with this product. Wear appropriate dust resistant clothing. Wash contaminated clothing and clean protective equipment before reuse. Wash skin thoroughly after handling.

Full contact material: Nitrile rubber of minimum layer thickness 0.11 mm and break through time 480 minutes.

Body protection: Choose protection in relation to its type, to the concentration and the amount of any dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and of the amount of any dangerous substances at the specific workplace.

Respiratory Protection: Follow the OSHA respiratory regulations found in 29 CFR 1910.134 or European Standard EN149. Keep dust exposure to a minimum with engineering and administrative controls. Use appropriate NIOSH/MSHA approved particulate respirators if necessary. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Use type N95 (US) or type P1 (EN 143) dust masks for nuisance levels of dust.

General Industrial Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

Environmental Exposure Controls

No special environmental precautions required.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State:	Solid
Appearance:	White powder
Odor:	Odorless
Odor Threshold:	No data available
pH:	Not applicable
Melting Point/Range:	>1500 deg. C (>2732 deg. F) - OECD Test Guide line 102
Boiling Point/Range:	No information available
Flash Point:	Not applicable
Evaporation Rate:	Not applicable
Flammability (solid, gas);	Not applicable
Flammability or Explosive Limits	
Upper:	No data available
Lower:	No data available
Vapor Pressure:	No information available
Vapor Density:	No information available
Relative Density:	2.51g/cc (water =1)
Water Solubility:	0.127 g/l at 30 deg. (86 deg. F)
Partition Coefficient; n-octanol/water:	No data available
Autoignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity:	No information available
Molecular Formula:	MgO3Si
Molecular weight:	100.39
Other Safety Information:	No information available

Section 10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions of use .
Chemical Stability
This product is stable under the specified conditions of storage, shipment and use.

Possibility of Hazardous Reactions
Contact with powerful oxidizing agents, such as fluorine, chlorine trifluoride and oxygen difluoride, may cause fires.
Conditions to Avoid
Avoid generation of dust in handling and use.
Incompatible Materials
Contact with powerful oxidizing agents, such as fluorine, chlorine trifluoride, oxygen difluoride and hydrofluoric acid.
Hazardous Decomposition Products
The product will dissolve in hydrofluoric acid and produce a corrosive gas, silicon tetrafluoride.

Section 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects
Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Silicic acid, magnesium salt	>5000 mg/kg (rat) (OECD Guideline 401)	>2000 mg/kg (rabbit) (OECD 402 Test Guideline)	>20 mg/l 1h (rat) (OECD Guideline 403)

Toxicologically Synergistic Products**:** No information available .
Delayed and Immediate Effects as well as Chronic Effects from Short and Long Term Exposure
Irritation: Skin—rabbit—no irritation—24h (Directive 67/548/EEC, Annex V, B.4.).
Serious eye damage /eye irritation: Eyes—rabbit—No eye irritation—72h (OECD Test Guideline 405).

Respiratory or Skin Sensitization: No data available.

Carcinogenicity: Table below indicates if each agency has listed any ingredient as a Carcinogen.

Component	CAS-No.	IARC	NTP	ACGIH	OSHA	Mexico
Silicic acid, magnesium salt	1343-88-0	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects: No information available.

Reproductive Effects: No information available.

Developmental Effects: No information available.

Teratogenicity: No information available.

Specific Target Organ Toxicity (STOT)-single exposure: None known.
Specific Target Organ Toxicity (STOT)-repeated exposure: None known.

Aspiration: No information available

Symptoms / Effects, Both Acute and Delayed: No information available.
Endocrine Disruptor Information: No information available.
Other Adverse Effects: RTECS: No information available.

Section 12. ECOLOGICAL INFORMATION

Toxicity
Silicic acid, magnesium salt: Based on test data for a similar substance, this material is not expected to be toxic to aquatic organisms.

Persistence/ Degradability
Silicic acid, magnesium salt is not degradable.

Bioaccumulation Potential
Does not bioaccumulate.
Mobility in Soil
Silicic acid, magnesium salt is not mobile in soil.

Other Adverse Effects
No information available

Section 13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Product: This product is not considered a hazardous waste. Storage and disposal should be in accordance with applicable local, state and federal laws and regulations.
Contaminated Packaging: Dispose of as unused product. Local regulations may be more stringent than state or federal requirements.
RCRA P-Series: None listed
RCRA U-Series: None listed

Section 14. TRANSPORTATION INFORMATION

Land: **DOT (US)**: Not regulated
ADR/RID (EU): Not regulated
TDG (Canada): Not regulated
Water: **IMO/IMDG**: Not regulated
Air: **IACO/IATA**: Not regulated
Transportation in Bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not determined
Special Precautions for User: No information available

Section 15. REGULATORY INFORMATION

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

Component	TSCA	DSL	NDSL	EINECS	ELINCS	MITI	PICCS	ENCS	AICS	IECSC	KECI
Silicic acid, magnesium salt	X	X	-	215-681-1	X	X	X	X	X	X	X

X indicates listed
AICS—Australian Inventory of Chemical Substances
DSL—Canada
NDSL—Canada
EINECS—European Union
IECSC—China
KECI—Korea Existing Chemicals Inventory
MITI—Japan Ministry of International Trade and Industry
ENCS—Japan Existing and New Chemical Substances
PICCS—Philippines Inventory of Chemical and Chemical Substances

U.S. Federal Regulations

TSCA**:** CAS# 1343-88-0 is listed on the TSCA inventory
CERCLA Hazardous Substances and Corresponding RQs: None of the chemicals in this material have an RQ.
SARA Section 302 Extremely Hazardous Substances: None of the chemicals in this product have a TPQ.
SARA Codes: CAS# 1343-88-0:
SARA 311/312 Hazardous Categorization:

- Acute Health Hazard: No
- Chronic Health Hazard: No
- Fire Hazard: No
- Sudden Release of Pressure: No
- Reactive Hazard: No

SARA Section 313: No SARA hazards
Clean Air Act:
This material does not contain any hazardous air pollutants, Class 1 Ozone depletors or Class 2 Ozone depletors.
Clean Water Act:
None of the chemicals in this product are listed as Hazardous Substances, Priority Pollutants or Toxic Pollutants under the CWA.
OSHA: Not applicable
CERCLA: Not applicable

U.S. Department of Transportation (DOT)

Reportable Quantity (RQ): No
DOT Marine Pollutant: No
DOT severe Marine Pollutant: No

U.S. Department of Homeland Security (DHS)

This product does not contain any DHS chemicals.

States Right-to-Know

Silicic acid, magnesium salt CAS# 1343-88-0

California Prop 65: Not listed. This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts: No components are subject to the Massachusetts Right-to-Know Act.

New Jersey Right to Know: Listed.

Pennsylvania: Listed.

Canadian Classification

WHMIS: Not controlled.

DSL : Listed.

EEC Council Directives relating to the classification, packaging, and labeling of dangerous substances and preparations.

Risk and Safety Phrases: S2: Keep out of reach of children,,

Mexico—Grade

No information available.

Section 16. OTHER INFORMATION

HMIS Rating (USA):

Health Hazard:	0
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard:	0
Personal Protection:	E (safety glasses, gloves, dust respirator)

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SDS REVISION SUMMARY: revision 004 dated 9/11/17
replaces revision 003 dated 9/30/14.
This document has been updated to comply with the U.S. OSHA HazCom 2012 Standard replacing the current Legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)