



SAFETY DATA SHEET

Creation Date: 2-16-21

Revision Date: 2-16-21

SDS-5, Revision Number: 1

1	Identification	<p>a) Product identifier used on the label: FF-105, SG-001, WF-405</p> <p>b) Other means of identification: Synthetic amorphous silica, Silicon Dioxide, silica filter material</p> <p>c) Recommended use of the chemical and restrictions on use: Air filter material.</p> <p>d) Bascom-Turner Instruments, Inc., 111 Downey Street, Norwood, MA 02062.</p> <p>e) Emergency telephone number: 781-769-9660.</p>										
2	Hazard(s) identification	<p>a) Classification of the substance or mixture: Not a hazardous substance or mixture.</p> <p>b) GHS Label elements, including precautionary statement: Not a hazardous substance or mixture.</p> <p>c) Hazards not otherwise classified (HNOC) or not covered by GHS - none</p>										
3	Composition/ information on ingredients	<table border="1" data-bbox="451 625 1484 947"> <thead> <tr> <th data-bbox="451 625 659 726">Hazardous Ingredients</th> <th data-bbox="659 625 846 726">Approximate Concentration %</th> <th data-bbox="846 625 1036 726">C.A.S. N.A. or U.N. Number</th> <th data-bbox="1036 625 1279 726">"Exposure limits"</th> <th data-bbox="1279 625 1484 726">LD50/LC50</th> </tr> </thead> <tbody> <tr> <td data-bbox="451 726 659 947">Silica gel</td> <td data-bbox="659 726 846 947">85-95%</td> <td data-bbox="846 726 1036 947">112945-52-5</td> <td data-bbox="1036 726 1279 947">ACGIH: 10 mg/m³ OSHA Vacated PEL: 6 mg/m³</td> <td data-bbox="1279 726 1484 947">LD50 (mice)> 8,000 mg/kg (test limit) LD50 (rats) >4,500 mg/kg (test limit)</td> </tr> </tbody> </table>	Hazardous Ingredients	Approximate Concentration %	C.A.S. N.A. or U.N. Number	"Exposure limits"	LD50/LC50	Silica gel	85-95%	112945-52-5	ACGIH: 10 mg/m ³ OSHA Vacated PEL: 6 mg/m ³	LD50 (mice)> 8,000 mg/kg (test limit) LD50 (rats) >4,500 mg/kg (test limit)
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4	First aid measures	<p>a) Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion:</p> <p><u>Skin Contact:</u> Wash thoroughly with soap and water. Seek medical attention if redness, swelling, itching, or burning occurs.</p> <p><u>Eye Contact:</u> Flush eyes immediately with large amounts of water for 15 minutes. Seek medical attention if redness, swelling, itching, burning or visual disturbances occur.</p> <p><u>Inhalation:</u> If cough, shortness of breath or other breathing problems occur, move to fresh air. Seek medical attention if symptoms persist. If necessary, restore normal breathing through standard first aid measures.</p> <p><u>Ingestion:</u> Do not induce vomiting. If conscious, give several glasses of water. Never give anything by mouth to an unconscious person.</p> <p><u>Notes to Physician:</u> Treat symptomatically.</p> <p>b) Most important symptoms/effects, acute and delayed: Skin: temporary local itching and redness.</p> <p>c) Indication of immediate medical attention and special treatment needed, if necessary: None.</p>										
5	Fire-fighting measures	<p>a) Suitable (and unsuitable) extinguishing media.: Use extinguishing media appropriate for surrounding fire.</p> <p>b) Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products): Product resists ignition and does not promote flame spread.</p> <p>c) Special protective equipment and precautions for fire-fighters.: Wear suitable protective equipment. In the event of fire, wear self-contained Breathing apparatus.</p>										
6	Accidental release measures	<p>a) Personal precautions, protective equipment, and emergency procedures. Avoid dust formation. Remove all sources of ignition. Ensure adequate ventilation. Use personal protective equipment.</p> <p>b) Methods and materials for containment and cleaning up: Clean up promptly by vacuum. Use a suitable vacuum cleaner. Do not create a dust Cloud by using a brush or compressed air. Pick up and transfer to properly labeled containers.</p>										

7	Handling and storage	<p>a) Precautions for safe handling: Keep sealed in filters. If filter containing material is opened, open in a well ventilated area. Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Do not create a dust cloud by using a brush or compressed air.</p> <p>b) Conditions for safe storage, including any incompatibilities: Keep sealed in filters</p>
8	Exposure controls/personal protection	<p>a) OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available: US OSHA PEL: 6 mg/m³ Dust, or Particulates US ACGIH - TLV: 10 mg/m³, TWA, Inhalable 3 mg/m³, TWA, Respirable Amorphous Silica, The regulatory exposure limits are found under the general silica, CAS RN 7631- 86-9:</p> <p>b) Appropriate engineering controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below permissible limits.</p> <p>c) Individual protection measures, such as personal protective equipment: Approved respirator may be necessary if local exhaust ventilation is not adequate. Repeated exposure may cause skin dryness or cracking. Use protective skin cream Before handling the product. Wear suitable gloves. Wear eye/face protection. Safety glasses with side-shields. Goggles. Wear suitable protective clothing. No special protective equipment required.</p>
9	Physical and chemical properties	<p>a) Appearance (physical state, color, etc.); White Beads/powder</p> <p>b) Odor: None.</p> <p>c) Odor threshold: N/A</p> <p>d) pH: unknown</p> <p>e) Melting point/freezing point: 1700°C</p> <p>f) Initial boiling point and boiling range: 2230°C</p> <p>g) Flash point: None.</p> <p>h) Evaporation rate: Not determined.</p> <p>i) Flammability (solid, gas): Non-flammable</p> <p>j) Upper/lower flammability or explosive limits: N/A</p> <p>k) Vapor pressure: Not determined.</p> <p>l) Vapor density: Not determined.</p> <p>m) Relative density: 2.2 g/cm³ @ 20°C</p> <p>n) Solubility(ies): Insoluble.</p> <p>o) Partition coefficient: n-octanol/water: N/A</p> <p>p) Auto-ignition temperature: N/A</p> <p>q) Decomposition temperature: Not determined</p> <p>r) Viscosity: N/A</p>
10	Stability and reactivity	<p>a) Reactivity: Generally unreactive</p> <p>b) Chemical stability: Stable</p> <p>c) Possibility of hazardous reactions: Does not occur.</p> <p>d) Conditions to avoid (e.g., static discharge, shock, or vibration);</p> <p>e) Incompatible materials: hydrofluoric acid (HF)</p> <p>f) Hazardous decomposition products: None</p>

11	Toxicological information	<p>Description of the various toxicological (health) effects and the available data used to identify those effects, including:</p> <ul style="list-style-type: none"> a) Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact): Likely exposure routes include oral, dermal, eye and inhalation (see 11d). b) Symptoms related to the physical, chemical and toxicological characteristics: Dust may cause mechanical irritation to skin and eyes. Dust is irritating to the respiratory tract. May cause irritation to the digestive tract. c) Delayed and immediate effects and also chronic effects from short- and long-term exposure: Prolonged exposure to respirable crystalline quartz may cause delayed lung injury / fibrosis (silicosis). d) Numerical measures of toxicity (such as acute toxicity estimates). <u>Oral LD50</u>: LD50/oral/rat = > 5000 mg/kg. <u>Inhalation LC50</u>: Due to the product's physical characteristics, no suitable testing procedure is available. <u>Dermal LD50</u>: LD50/dermal/rabbit = > 2000 mg/kg. <u>Eye Irritation</u>: Draize score 0.7/110 @ 24 hr. Non-irritating. Skin Irritation: 0/8. Non-irritating. e) Whether the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA. <u>Carcinogenic Effects</u>: Does not contain any substances greater than 0.1% listed by IARC (International Agency for Research on Cancer), NTP (National Toxicology Program), OSHA (Occupational Safety and Health Administration), ACGIH (American Conference for Governmental Industrial Hygienists) or EU (European Union). <u>Mutagenic Effects</u>: Not mutagenic in AMES Test, unscheduled DNA synthesis, chromosomal aberration in Chinese hamster ovary (CHO) cells. <u>Reproductive Toxicity</u>: Did not show teratogenic effects in animal experiments. . <u>Sensitizing Effects</u>: A delayed contact hypersensitivity study in guinea pigs utilizing the Magnusson and Kligman Maximization technique was performed. No sensitization responses were observed.
12	Ecological information (Non-mandatory)	<ul style="list-style-type: none"> a) Ecotoxicity (aquatic and terrestrial, where available); Fish (Brachydanio rerio) ECO (96 hours): > 10,000 mg/l; (Method: OECD 203) Daphnia magna ECO (24 hours): > 10,000 mg/l; (Method: OECD 202) b) Persistence and degradability: Generally not applicable to inorganic substances. c) Bioaccumulative potential: Not expected to migrate. d) Mobility in soil: Not mobile. e) Other adverse effects (such as hazardous to the ozone layer): None.
13	Disposal considerations (Non-mandatory)	<p>Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging.</p> <p>Waste Disposal: Place in a suitable container which will avoid blowing of dust. Dispose in an approved landfill according to federal, state and local regulations.</p>
14	Transport information (Non-mandatory)	<ul style="list-style-type: none"> a) UN number: No UN number b) UN proper shipping name: N/A c) Transport class(es): N/A d) Packing group, if applicable; N/A e) Environmental hazards (e.g., Marine pollutant (Yes/No)); No f) Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): N/A g) Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises. Not classified as dangerous in the meaning of transport regulations

15	Regulatory information (Non-mandatory)	Safety, health and environmental regulations specific for the product in question.: U.S. Federal Regulations TSCA 12(b) Export Notification: This product does not contain any components that are subject to TSCA 12(b) Export Notification. Clean Air Act Amendments of 1990 (CAA, Section 112, 40 CFR 82): This product does not contain any components listed as a Hazardous Air Pollutant, Flammable Substance, Toxic Substance, or Class 1 or 2 Ozone Depletor. Clean Water Act (CWA, 40 CFR 116) Priority Pollutants: This product does not contain any Listed Priority Pollutants. Comprehensive Environmental Response, Compensation and Liability Act(CERCLA, 40 CFR 302): This product does not contain any listed Hazardous Substances. Superfund Amendments and Reauthorization Act, Title III (SARA): SARA Section 302 (40 CFR 355) Extremely Hazardous Substances: No components are listed as extremely hazardous chemicals under SARA Section 302. SARA Sections 311/312 (40 CFR 370) Hazard Category: This product does not meet any of the MSDS Requirement definitions for a hazardous material under SARA Sections 311/312. Reporting may be required if the material is present at any one time in amounts equal to or greater than 10,000 pounds. SARA Section 313 (40 CFR 372) Toxics Release Inventory: Does not contain any of the substances identified under Section 313 as toxic chemicals in excess of the de minimis concentrations necessary to be subject to the supplier notification requirements. U.S. State Regulations California Proposition 65: This product is not listed on California Proposition 65.
16	Other information, including date of preparation or last revision	The date of preparation of the SDS or the last change to it. 16 February 2021