



## Safety Data Sheet

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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Glass Bubbles, Types K and S

#### Product Identification Numbers

70-0701-1952-7, 70-0701-8213-7, 70-0701-9409-0, 70-0701-9423-1, 70-0701-9581-6, 70-0703-2625-4, 70-0703-2736-9, 70-0703-2737-7, 70-0703-2749-2, 70-0703-2815-1, 70-0703-2816-9, 70-0703-3031-4, 70-0704-1615-4, 70-0704-1616-2, 70-0704-2949-6, 70-0704-2950-4, 70-0704-2956-1, 70-0704-2959-5, 70-0704-2962-9, 70-0704-2966-0, 70-0704-2967-8, 70-0704-2968-6, 70-0704-2971-0, 70-0704-5810-7, 70-0704-5811-5, 70-0704-5816-4, 70-0704-5822-2, 70-0704-5908-9, 70-0704-8401-2, 70-0704-8402-0, 70-0704-8403-8, 70-0704-8404-6, 70-0704-8405-3, 70-0704-8406-1, 70-0704-8408-7, 70-0704-8409-5, 70-0704-8410-3, 70-0704-8764-3, 70-0706-6017-3, 70-0707-4394-6, 98-0212-1022-8, 98-0212-1024-4, 98-0212-1025-1, 98-0212-2726-3, 98-0212-2743-8, 98-0212-2744-6, 98-0212-2972-3, 98-0212-3053-1, 98-0212-3072-1, 98-0212-3206-5, 98-0212-3207-3, 98-0212-3208-1, 98-0212-3210-7, 98-0212-3281-8, 98-0212-3315-4, 98-0212-3316-2, 98-0212-3317-0, 98-0212-3320-4, 98-0212-3323-8, 98-0212-3366-7, 98-0212-3389-9, 98-0212-3520-9, 98-0212-3522-5, 98-0212-3532-4, 98-0212-3579-5, 98-0212-3587-8, 98-0212-3590-2, 98-0212-3591-0, 98-0212-3604-1, 98-0212-3622-3, 98-0212-3640-5, 98-0213-3043-0, 98-0213-3116-4, 98-0213-3117-2, 98-0213-3118-0, 98-0213-3301-2, 98-0213-3352-5, 98-0213-3436-6, 98-0213-3488-7, 98-0213-3489-5, 98-0213-3490-3, 98-0213-3491-1, 98-0213-3528-0, 98-0213-3544-7, 98-0213-3616-3, FJ-9600-0081-0, FJ-9600-0082-8, FJ-9600-0083-6, FS-9000-2572-7, FS-9000-2590-9, FS-9100-0397-9, FS-9100-0398-7, FS-9100-0410-0, FS-9100-0411-8, FS-9100-0414-2, FS-9100-0437-3, FS-9100-0441-5, FS-9100-0444-9, FS-9100-0746-7, FS-9100-0846-5, FS-9100-0882-0, FS-9100-1029-7, FS-9100-1313-5, FS-9100-1717-7, FS-9100-1831-6, FS-9100-2037-9, FS-9100-2330-8, FS-9100-2363-9, FS-9100-2366-2, FS-9100-2395-1, FS-9100-2396-9, FS-9100-2412-4, FS-9100-2438-9, FS-9100-2544-4, FS-9100-2590-7, FS-9100-2629-3, FS-9100-2708-5, FS-9100-2709-3, FS-9100-2711-9, FS-9100-2984-2, FS-9100-3027-9, FS-9100-3028-7, FS-9100-3325-7, FS-9100-3618-5, FS-9100-4083-1, FS-9100-4179-7, FS-9100-4216-7, FS-9100-4225-8, FS-9100-4227-4, FS-9100-4280-3, FS-9100-4300-9, FS-9100-4311-6, FS-9100-4324-9, FS-9100-4360-3, FS-9100-4439-5, FS-9100-4472-6, FS-9100-4561-6, FS-9100-5009-5, FS-9100-5010-3, FS-9100-5053-3, FS-9100-5065-7, FS-9100-5068-1, FS-9100-5121-8, FS-9100-5146-5, FS-9100-5183-8, FS-9100-5184-6, FS-9100-5192-9, FS-9100-5194-5, FS-9100-5198-6, FS-9100-5199-4, FS-9100-5250-5, FS-9100-5300-8, FS-9100-5304-0, FS-9100-5375-0, FS-9100-5392-5, FS-9100-5397-4, FS-9100-5415-4, H0-0021-5045-8, HB-0040-8050-1, HB-0041-0069-7, HB-0041-8096-2, HB-0041-8898-1, HB-0041-8905-4, HB-0041-8906-2, HB-0041-8907-0, HB-0041-8908-8, HB-0041-8909-6, HB-0041-8910-4, HB-0041-8911-2, HB-0041-8913-8, HB-0041-9053-2, HB-0041-9054-0, HB-0041-9055-7, HB-0041-9074-8, HB-0041-9077-1, HB-0041-9124-1, HB-0041-9125-8, HB-0041-9126-6, HB-0041-9127-4, HB-0041-9128-2, HB-0041-9131-6, HB-0041-9140-7, HB-0041-9142-3, HB-0041-9143-1, HB-0041-9146-4, HB-0041-9147-2, HB-0041-9190-2, HB-0041-9193-6, HB-0041-9194-4, HB-0041-9234-8, HB-0042-0876-3, HB-0042-0879-7, HB-0042-0881-3, HB-0042-0887-0, HB-0042-0888-8, HB-0042-3265-6, HB-0042-3909-9, HB-0042-4880-1, HB-0042-7100-1, HB-0042-7135-7, HC-0006-2403-7, HC-0006-2405-2, HC-0006-2407-8, HC-0006-2409-4, HC-0006-2417-7, HC-0006-2419-3, HC-0006-2629-7, HC-0006-2630-5, HC-0006-2632-1, HC-0006-2633-9, HC-0006-2634-7, HC-0006-2635-4, HC-0006-2636-2, HC-0006-2637-0, HC-0006-2638-8, HC-0006-4572-7, JF-1000-4245-2, JF-1000-4246-0, JF-1000-4247-8, JF-1000-4251-0, JF-1000-4252-8, JF-1000-4253-6, JF-1000-4254-4, JF-1000-4255-1, JF-1000-4257-7, JF-1000-4258-5, JF-1000-4259-3, JF-1000-4261-9, JF-

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## 1.2. Recommended use and restrictions on use

### Recommended use

Lightweight Filler

## 1.3. Supplier's details

**MANUFACTURER:** 3M  
**DIVISION:** Advanced Materials Division  
**ADDRESS:** 3M Center, St. Paul, MN 55144-1000, USA  
**Telephone:** 1-888-3M HELPS (1-888-364-3577)

## 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

## SECTION 2: Hazard identification

### 2.1. Hazard classification

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### 2.2. Label elements

#### Signal word

Not applicable.

**Symbols**

Not applicable.

**Pictograms**

Not applicable.

**SECTION 3: Composition/information on ingredients**

Ingredient	C.A.S. No.	% by Wt
Soda Lime Borosilicate Glass	65997-17-3	97 - 100
Synthetic Amorphous Crystalline-Free Silica	7631-86-9	0 - 3

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation:**

Remove person to fresh air. If you feel unwell, get medical attention.

**Skin Contact:**

Wash with soap and water. If signs/symptoms develop, get medical attention.

**Eye Contact:**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

**If Swallowed:**

Rinse mouth. If you feel unwell, get medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

See Section 11.1. Information on toxicological effects.

**4.3. Indication of any immediate medical attention and special treatment required**

Not applicable

**SECTION 5: Fire-fighting measures****5.1. Suitable extinguishing media**

Non-combustible. Use a fire fighting agent suitable for surrounding fire.

**5.2. Special hazards arising from the substance or mixture**

None inherent in this product.

**5.3. Special protective actions for fire-fighters**

No special protective actions for fire-fighters are anticipated.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate area. Ventilate the area with fresh air. Observe precautions from other sections.

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

Collect as much of the spilled material as possible. Use wet sweeping compound or water to avoid dusting. Sweep up. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

For industrial/occupational use only. Not for consumer sale or use. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

**7.2. Conditions for safe storage including any incompatibilities**

No special storage requirements.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

<b>Ingredient</b>	<b>C.A.S. No.</b>	<b>Agency</b>	<b>Limit type</b>	<b>Additional Comments</b>
SILICA, AMORPHOUS	7631-86-9	OSHA	TWA concentration:0.8 mg/m3;TWA:20 millions of particles/cu. ft.	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

**8.2. Exposure controls****8.2.1. Engineering controls**

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

**8.2.2. Personal protective equipment (PPE)****Eye/face protection**

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Safety Glasses with side shields

**Skin/hand protection**

No chemical protective gloves are required.

**Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part

of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>General Physical Form:</b>	Solid
<b>Specific Physical Form:</b>	Low density fine powder (< 100 microns)
<b>Odor, Color, Grade:</b>	White odorless
<b>Odor threshold</b>	<i>Not Applicable</i>
<b>pH</b>	<i>No Data Available</i>
<b>Melting point</b>	<i>No Data Available</i>
<b>Boiling Point</b>	<i>Not Applicable</i>
<b>Flash Point</b>	<i>Not Applicable</i>
<b>Evaporation rate</b>	<i>Not Applicable</i>
<b>Flammability (solid, gas)</b>	Not Classified
<b>Flammable Limits(LEL)</b>	<i>Not Applicable</i>
<b>Flammable Limits(UEL)</b>	<i>Not Applicable</i>
<b>Vapor Pressure</b>	<i>Not Applicable</i>
<b>Vapor Density</b>	<i>Not Applicable</i>
<b>Density</b>	0.1 - 0.6 g/cm <sup>3</sup>
<b>Specific Gravity</b>	0.1 - 0.6 [Ref Std: WATER=1]
<b>Solubility in Water</b>	Negligible
<b>Solubility- non-water</b>	<i>Not Applicable</i>
<b>Partition coefficient: n-octanol/ water</b>	<i>Not Applicable</i>
<b>Autoignition temperature</b>	<i>Not Applicable</i>
<b>Decomposition temperature</b>	<i>Not Applicable</i>
<b>Viscosity</b>	<i>Not Applicable</i>
<b>Molecular weight</b>	<i>No Data Available</i>
<b>Volatile Organic Compounds</b>	<i>Not Applicable</i>
<b>Percent volatile</b>	< 0.5 % weight
<b>Softening point</b>	>=600 °C
<b>VOC Less H<sub>2</sub>O &amp; Exempt Solvents</b>	<i>Not Applicable</i>

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

None known.

**10.6. Hazardous decomposition products****Substance**

Oxides of Sulfur

**Condition**

If Breakage Occurs

**SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

**11.1. Information on Toxicological effects****Signs and Symptoms of Exposure**

Based on test data and/or information on the components, this material may produce the following health effects:

**Inhalation:**

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**Skin Contact:**

Mechanical Skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching.

**Eye Contact:**

Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.

**Ingestion:**

May be harmful if swallowed.

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

**Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

Name	Route	Species	Value
Soda Lime Borosilicate Glass	Dermal		LD50 estimated to be > 5,000 mg/kg
Soda Lime Borosilicate Glass	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Synthetic Amorphous Crystalline-Free Silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Synthetic Amorphous Crystalline-Free Silica	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Synthetic Amorphous Crystalline-Free Silica	Ingestion	Rat	LD50 > 5,110 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
Soda Lime Borosilicate Glass	Professional judgement	No significant irritation
Synthetic Amorphous Crystalline-Free Silica	Rabbit	No significant irritation

**Serious Eye Damage/Irritation**

Name	Species	Value
Soda Lime Borosilicate Glass	Professional judgement	No significant irritation
Synthetic Amorphous Crystalline-Free Silica	Rabbit	No significant irritation

**Skin Sensitization**

Name	Species	Value
Synthetic Amorphous Crystalline-Free Silica	Human and animal	Not classified

**Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity**

Name	Route	Value
Soda Lime Borosilicate Glass	In Vitro	Some positive data exist, but the data are not sufficient for classification
Synthetic Amorphous Crystalline-Free Silica	In Vitro	Not mutagenic

**Carcinogenicity**

Name	Route	Species	Value
Soda Lime Borosilicate Glass	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
Synthetic Amorphous Crystalline-Free Silica	Not Specified	Mouse	Some positive data exist, but the data are not sufficient for classification

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test Result	Exposure Duration
Synthetic Amorphous Crystalline-Free Silica	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Synthetic Amorphous Crystalline-Free Silica	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Synthetic Amorphous Crystalline-Free Silica	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Soda Lime Borosilicate Glass	Inhalation	respiratory system	Not classified	Human	NOAEL not available	occupational exposure
Synthetic Amorphous Crystalline-Free Silica	Inhalation	respiratory system   silicosis	Not classified	Human	NOAEL Not available	occupational exposure

**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

## SECTION 12: Ecological information

### Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

### Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

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

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility.

EPA Hazardous Waste Number (RCRA): Not regulated

## SECTION 14: Transport Information

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M transportation classifications are based on product formulation, packaging, 3M policies and 3M understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling, or marking requirements. The original 3M package is certified for U.S. ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.

## SECTION 15: Regulatory information

### 15.1. US Federal Regulations

Contact 3M for more information.

#### EPCRA 311/312 Hazard Classifications:

##### Physical Hazards

Not applicable

##### Health Hazards

Not applicable

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories



The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information.

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.

Contact 3M for more information.

#### 15.4. International Regulations

Contact 3M for more information.

**This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.**

## SECTION 16: Other information

### NFPA Hazard Classification

**Health:** 1 **Flammability:** 0 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

### HMIS Hazard Classification

**Health:** 1 **Flammability:** 0 **Physical Hazard:** 0 **Personal Protection:** X - See PPE section.

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

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