

# **Material Safety Data Sheet**

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# **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** 3M<sup>TM</sup> Glass Bubbles, Types K and S

**MANUFACTURER:** 3M

**DIVISION:** Energy and Advanced Materials Division

ADDRESS: 3M Center, St. Paul, MN 55144-1000

## EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

**Issue Date:** 06/19/12 **Supercedes Date:** 04/11/12

**Document Group:** 10-4852-9

**Product Use:** 

Intended Use: Lightweight Filler

# **SECTION 2: INGREDIENTS**

 Ingredient
 C.A.S. No.
 % by Wt

 Soda Lime Borosilicate Glass
 65997-17-3
 97 - 100

 Synthetic Crystalline-Free Silica Gel
 112926-00-8
 < 3</td>

Boron included in Soda Lime Borosilicate Glass (CAS number 7440-42-8) at 1-4% by Wt.

Synthetic amorophous silica CAS number for TSCA Inventory is 7631-86-9

# **SECTION 3: HAZARDS IDENTIFICATION**

# 3.1 EMERGENCY OVERVIEW

**Specific Physical Form:** Low density fine powder (< 100 microns)

Odor, Color, Grade: white, odorless General Physical Form: Solid

Immediate health, physical, and environmental hazards:

## 3.2 POTENTIAL HEALTH EFFECTS

## **Eye Contact:**

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

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#### **Skin Contact:**

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

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

#### **Ingestion:**

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

# **SECTION 4: FIRST AID MEASURES**

## 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

**Eye Contact:** Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

**Skin Contact:** Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

**Inhalation:** Remove person to fresh air. If signs/symptoms develop, get medical attention.

Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never If Swallowed:

give anything by mouth to an unconscious person. Get medical attention.

# **SECTION 5: FIRE FIGHTING MEASURES**

## 5.1 FLAMMABLE PROPERTIES

**Autoignition temperature** Not Applicable Flash Point Not Applicable Not Applicable Flammable Limits(LEL) Flammable Limits(UEL) Not Applicable

## 5.2 EXTINGUISHING MEDIA

Non-combustible. Choose material suitable for surrounding fire. Material will not burn.

## 5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

**Unusual Fire and Explosion Hazards:** No unusual fire or explosion hazards are anticipated.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

## 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air.

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#### 6.2. Environmental precautions

Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

## Clean-up methods

Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill. Collect as much of the spilled material as possible. Use wet sweeping compound or water to avoid dusting. Sweep up. Clean up residue.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

# **SECTION 7: HANDLING AND STORAGE**

## 7.1 HANDLING

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. For industrial or professional use only. Avoid breathing of airborne material. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits. If ventilation is not adequate, use respiratory protection equipment.

## 7.2 STORAGE

Store under normal warehouse conditions.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation. Provide local exhaust ventilation at transfer points. Conduct air monitoring to determine adequacy of ventilation. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control dust, fume, or airborne particles. If ventilation is not adequate, use respiratory protection equipment.

# 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

## 8.2.1 Eye/Face Protection

Avoid eye contact.

The following eye protection(s) are recommended: Safety Glasses with side shields

#### 8.2.2 Skin Protection

Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Gloves made from the following material(s) are recommended: Neoprene

Nitrile Rubber

# 8.2.3 Respiratory Protection

Avoid breathing of dust.

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half facepiece or full facepiece air-purifying respirator suitable for particulates

. Select and use respiratory protection to prevent an inhalation exposure based on the results of an exposure assessment. Consult with

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your respirator manufacturer for selection of appropriate types of respirators.

#### 8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

## 8.3 EXPOSURE GUIDELINES

<u>Ingredient</u>	<u>Authority</u>	<b>Type</b>	<u>Limit</u>	Additional Information
Soda Lime Borosilicate Glass	Manufacturer	TWA, as dust	10 mg/m3	
	determined			
SILICA, AMORPHOUS	OSHA	TWA concentration	0.8  mg/m3	
SILICA, AMORPHOUS	OSHA	TWA	20 millions of	
			particles/cu. ft.	

## SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Specific Physical Form:** Low density fine powder (< 100 microns)

Odor, Color, Grade: white, odorless

General Physical Form: Solid

Autoignition temperatureNot ApplicableFlash PointNot ApplicableFlammable Limits(LEL)Not ApplicableFlammable Limits(UEL)Not ApplicableBoiling PointNot ApplicableDensity0.12 g/ml - 0.63 g/mlVapor DensityNot Applicable

Vapor Pressure Not Applicable

Specific Gravity 0.12 - 0.63

Melting point No Data Available

Solubility in WaterNegligibleEvaporation rateNot ApplicableVolatile Organic CompoundsNot ApplicableKow - Oct/Water partition coefNot ApplicablePercent volatile< 0.5 % weight</th>VOC Less H2O & Exempt SolventsNot ApplicableViscosityNot Applicable

# **SECTION 10: STABILITY AND REACTIVITY**

Stability: Stable.

**Materials and Conditions to Avoid:** 

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#### 10.1 Conditions to avoid

None known

#### 10.2 Materials to avoid

None known

Hazardous Polymerization: Hazardous polymerization will not occur.

# **Hazardous Decomposition or By-Products**

**Substance** Condition None known. Not Specified

# **SECTION 11: TOXICOLOGICAL INFORMATION**

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

# **SECTION 12: ECOLOGICAL INFORMATION**

## ECOTOXICOLOGICAL INFORMATION

Not determined.

## CHEMICAL FATE INFORMATION

Not determined.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste Disposal Method: Reclaim if feasible. For quantities <100 lbs. (50kg): dispose of waste product in a sanitary landfill. For larger quantities:

Dispose of waste product in a facility permitted to accept chemical waste. As a disposal alternative, incinerate in an industrial or commercial facility. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

EPA Hazardous Waste Number (RCRA): Not regulated

Since regulations vary, consult applicable regulations or authorities before disposal.

# **SECTION 14:TRANSPORT INFORMATION**

## **ID** Number(s):

41 - 4202 - 4323 - 4,70 - 0701 - 1952 - 7,70 - 0701 - 8213 - 7,70 - 0701 - 9409 - 0,70 - 0701 - 9423 - 1,70 - 0703 - 2625 - 4,70 - 0703 - 2736 - 9,70 - 0700 - 2736 - 9,70 - 0700 - 2736 - 9,70 - 0700 - 2736 - 9,70 - 072737-7, 70-0703-2749-2, 70-0703-2815-1, 70-0703-2816-9, 70-0703-2817-7, 70-0703-3031-4, 70-0704-1615-4, 70-0704-1616-2, 0704 - 1665 - 9, 70 - 0704 - 2949 - 6, 70 - 0704 - 2950 - 4, 70 - 0704 - 2956 - 1, 70 - 0704 - 2958 - 7, 70 - 0704 - 2959 - 5, 70 - 0704 - 2962 - 9, 70 - 0704 - 2966 - 1000, 70 - 0704 - 2967 - 8, 70 - 0704 - 2968 - 6, 70 - 0704 - 2971 - 0, 70 - 0704 - 5810 - 7, 70 - 0704 - 5811 - 5, 70 - 0704 - 5812 - 3, 70 - 0704 - 5814 - 9, 70 - 0704 - 5812 - 3, 70 - 0704 - 5814 - 9, 70 - 0704 - 9, 70 - 0704 - 9, 70 - 0704 - 9, 70 - 0704 - 9, 70 - 0704 - 9, 70 - 0704 - 9, 70 - 0704 - 9, 70 - 0704 - 9, 70 - 0704 - 9, 70 - 0704 - 9, 70 - 0704 - 9, 70 - 05816-4, 70-0704-5817-2, 70-0704-5820-6, 70-0704-5822-2, 70-0704-5823-0, 70-0704-5825-5, 70-0704-5826-3, 70-0704-5908-9, 70-0704-5826-3, 

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1025-1, 98-0212-2725-5, 98-0212-2726-3, 98-0212-2743-8, 98-0212-2744-6, 98-0212-2778-4, 98-0212-2972-3, 98-0212-3037-4, 98-0212-2744-6, 98-0212-2778-4, 98-0212-2972-3, 98-0212-3037-4, 98-0212-2744-6, 98-0212-2778-4, 98-0212-2972-3, 98-0212-3037-4, 98-0212-2744-6, 98-0212-2778-4, 98-0212-2972-3, 98-0212-3037-4, 98-0212-2744-6, 98-0212-2778-4, 98-0212-2972-3, 98-0212-3037-4, 98-0212-2744-6, 98-0212-2778-4, 98-0212-2972-3, 98-0212-3037-4, 98-0212-2744-6, 98-0212-2778-4, 98-0212-2972-3, 98-0212-3037-4, 98-0212-2744-6, 98-0212-2778-4, 98-0212-2972-3, 98-0212-3037-4, 98-0212-2744-6, 98-0212-2778-4, 98-0212-2972-3, 98-0212-3037-4, 98-0212-2744-6, 98-0212-2778-4, 98-0212-2972-3, 98-0212-3037-4, 98-0212-3007-4, 98-0212-3007-4, 98-0212-3007-4, 98-0212-3007-4, 98-0212 0212 - 3053 - 1, 98 - 0212 - 3054 - 9, 98 - 0212 - 3056 - 4, 98 - 0212 - 3057 - 2, 98 - 0212 - 3071 - 3, 98 - 0212 - 3072 - 1, 98 - 0212 - 3206 - 5, 98 - 0212 - 3207 - 3072 - 1, 98 - 0212 - 3206 - 5, 98 - 0212 - 3207 - 3072 - 1, 98 - 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Not regulated per U.S. DOT, IATA or IMO.

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 <u>not</u> 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**

## US FEDERAL REGULATIONS

Contact 3M for more information.

## 311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

## STATE REGULATIONS

Contact 3M for more information.

## CHEMICAL INVENTORIES

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

Contact 3M for more information.

## INTERNATIONAL REGULATIONS

## MATERIAL SAFETY DATA SHEET 3M™ Glass Bubbles, Types K and S 06/19/12

Contact 3M for more information.

## ADDITIONAL INFORMATION

This product is an article as defined by TSCA, EINECS, CDSL, MITI, KECI, AICS, PICCS, KECI and CICS regulations, and is exempt from chemical inventory listing requirements.

This MSDS 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 Reactivity: 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 Reactivity: 0 Protection: X - See PPE section.

Hazardous Material Identification System (HMIS®) 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® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint and Coatings Association (NPCA).

#### **Revision Changes:**

Section 8: Respiratory protection - recommended respirators information was modified. Section 14: ID Number(s) Template 1 was modified.

DISCLAIMER: The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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