

# **Material Safety Data Sheet**

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

**PRODUCT NAME:**3M (TM) GLASS BUBBLES, TYPES B, K, L, and S**MANUFACTURER:**3M**DIVISION:**Specialty Materials

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

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

**Issue Date:** 03/09/2005 **Supercedes Date:** 03/02/2005

Document Group: 10-4852-9

**Product Use:** 

Specific Use:

Lightweight Filler

# **SECTION 2: INGREDIENTS**

Ingredient SODA LIME BOROSILICATE GLASS AMORPHOUS SILICA <u>C.A.S. No.</u> 65997-17-3 7631-86-9 <u>% by Wt</u> 97 - 100 <3

# **SECTION 3: HAZARDS IDENTIFICATION**

### **3.1 EMERGENCY OVERVIEW**

Specific Physical Form: Low Density Fine Powder (less than 10 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.

#### Skin Contact:

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

#### Inhalation:

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

Prolonged or repeated exposure may cause:

Lung Effects: Signs/symptoms may include difficulty breathing, cough, wheezing, weakness, increased heart rate, bluish colored skin (cyanosis), sputum production and changes in lung function tests.

**Ingestion:** 

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

# **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.

**If Swallowed:** Do not induce vomiting. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

# **SECTION 5: FIRE FIGHTING MEASURES**

### 5.1 FLAMMABLE PROPERTIES

Autoignition temperature Flash Point Flammable Limits - LEL Flammable Limits - UEL Not Applicable Not Applicable Not Applicable 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**

Accidental Release Measures: Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill. Ventilate the area with fresh air. Collect as much of the spilled material as possible. Use wet sweeping compound or water to avoid dusting. Sweep up. Clean up residue. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

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.

### 7.2 STORAGE

Store away from oxidizing agents.

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation. Conduct air monitoring to determine adequacy of ventilation.

### **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

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

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half facepiece or fullface air-purifying respirator with P95 particulate filters. Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

#### 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

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SODA LIME BOROSILICATE GLASS	3M
AMORPHOUS SILICA	CM

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 Type

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TypeLimitTWA, as dust10 mg/m3TWA, as respirable3 mg/m3

**Additional Information** 

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: Odor, Color, Grade: General Physical Form: Autoignition temperature Flash Point Flammable Limits - LEL Flammable Limits - UEL Boiling point Density Vapor Density	Low Density Fine Powder (less than 10 microns) white, odorless Solid Not Applicable Not Applicable Not Applicable Not Applicable 0.1 g/ml - 0.6 g/ml Not Applicable
Vapor Pressure	Not Applicable 0.1 - 0.6
Specific Gravity Melting point	No Data Available
Solubility in Water Evaporation rate Volatile Organic Compounds Percent volatile VOC Less H2O & Exempt Solvents Viscosity	Negligible Not Applicable Not Applicable < 0.5 % weight Not Applicable Not Applicable

# **SECTION 10: STABILITY AND REACTIVITY**

Stability: Stable.

Materials and Conditions to Avoid: None known

Hazardous Polymerization: Hazardous polymerization will not occur.

### Hazardous Decomposition or By-Products

**Substance** 

None known.

Condition 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.

#### EPA Hazardous Waste Number (RCRA): Not regulated

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

# **SECTION 14:TRANSPORT INFORMATION**

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

70-0700-7938-2, 70-0701-1952-7, 70-0701-8213-7, 70-0701-9409-0, 70-0701-9423-1, 70-0703-2625-4, 70-0703-2736-9, 70-0701-9423-1, 70-0703-2625-4, 70-0703-2736-9, 70-0701-9409-0, 70-0701-9409-0, 70-0701-9409-0, 70-0703-2625-4, 70-0703-2625-4, 70-0703-2736-9, 70-0701-9409-0, 70-0701-9409-0, 70-0703-2625-4, 70-0703-2736-9, 70-0701-9409-0, 70-0701-9409-0, 70-0703-2625-4, 70-0703-2736-9, 70-0701-9409-0, 70-0701-9409-0, 70-0703-2625-4, 70-0703-2736-9, 70-0703-2625-4, 70-0703-2625-4, 70-0703-2736-9, 70-0703-2736-9, 70-0703-2625-4, 70-0703-2736-9, 70-0703-2736-9, 70-0703-2736-9, 70-0703-2625-4, 70-0703-2736-9, 70-0703-2736-2, 70-0703-2736-2, 70-0703-2736-2, 70-0703-2736-2, 70-0703-2736-2, 70-0703-2736-2, 70-0703-2736-2, 70-0703-2736-2, 70-0703-2736-2, 70-0703-2736-2, 70-0703-2706-2, 70-0703-2, 70-0702-2, 70-0702-2, 70-0702-2, 70-0702-2, 70-0702-2, 70-0702-2, 70-0702-2, 70-0702-2, 70-0702-2, 7 0703-2737-7, 70-0703-2749-2, 70-0703-2815-1, 70-0703-2816-9, 70-0703-2817-7, 70-0703-3031-4, 70-0704-1512-3, 70-0704-1615-4, 70-0704-1616-2, 70-0704-1665-9, 70-0704-2949-6, 70-0704-2950-4, 70-0704-2951-2, 70-0704-2952-0, 70-0704-2953-8, 70-0704-2955-3, 70-0704-2956-1, 70-0704-2957-9, 70-0704-2958-7, 70-0704-2959-5, 70-0704-2961-1, 70-0704-2962-9, 70-0704-2959-5, 70-0704-2961-1, 70-0704-2962-9, 70-0704-2959-5, 70-0704-2959-5, 70-0704-2961-1, 70-0704-2962-9, 70-0704-2959-5, 70-0704-2959-5, 70-0704-2961-1, 70-0704-2962-9, 70-0704-2959-5, 70-0704-2959-5, 70-0704-2961-1, 70-0704-2962-9, 70-0704-2959-5, 70-0704-2959-5, 70-0704-2961-1, 70-0704-2962-9, 70-0704-2959-5, 70-0704-2959-5, 70-0704-2961-1, 70-0704-2962-9, 70-0704-2959-5, 70-0704-2959-5, 70-0704-2961-1, 70-0704-2962-9, 70-0704-2959-5, 70-0704-2959-5, 70-0704-2961-1, 70-0704-2962-9, 70-0704-2959-5, 70-0704-2959-5, 70-0704-2962-9, 70-0704-2962-9, 70-0704-2959-5, 70-0704-2962-9, 70-0704-2962-9, 70-0704-2959-5, 70-0704-2959-5, 70-0704-2962-9, 70-0704-2962-9, 70-0704-2959-5, 70-0704-295-5, 70-0705-5, 70-0704-295-5, 70-0704-295-5, 70-0705-5 0704-2964-5, 70-0704-2965-2, 70-0704-2966-0, 70-0704-2967-8, 70-0704-2968-6, 70-0704-2970-2, 70-0704-2971-0, 70-0704-2967-8, 70-0704-2968-6, 70-0704-2970-2, 70-0704-2971-0, 70-0704-2967-8, 70-0704-2968-6, 70-0704-2970-2, 70-0704-2971-0, 70-0704-2968-6, 70-0704-2970-2, 70-0704-2971-0, 70-0704-2968-6, 70-0704-2970-2, 70-0704-2971-0, 70-0704-2968-6, 70-0704-2970-2, 70-0704-2971-0, 70-0704-2968-6, 70-0704-2970-2, 70-0704-2971-0, 70-0704-2968-6, 70-0704-2970-2, 70-0704-2971-0, 70-0704-2970-0, 70-0704-2970-0, 70-0704-2970-0, 70-0704-2970-0, 70-0704-2970-0, 70-0704-2970-0, 70-0704-2970-0, 70-0704-2970-0, 70-0704-2970-0, 70-0704-2970-0, 70-0704-2970-0, 70-0704-2970-0, 70-0704-2970-0, 70-0704-2970-0, 70-0704-2970-0, 70-0704-0, 70-0704-0, 70-0704-0, 70-0704-0, 70-0704-0, 70-0704-0, 70-0704-0, 70-07 5810-7, 70-0704-5811-5, 70-0704-5812-3, 70-0704-5813-1, 70-0704-5814-9, 70-0704-5816-4, 70-0704-5817-2, 70-0704-5818-0, 70-0704-5819-8, 70-0704-5820-6, 70-0704-5822-2, 70-0704-5823-0, 70-0704-5825-5, 70-0704-5826-3, 70-0704-5908-9, 70-0704-5929-5, 70-0704-8397-2, 70-0704-8401-2, 70-0704-8402-0, 70-0704-8403-8, 70-0704-8404-6, 70-0704-8405-3, 70-0704-8406-1, 70-0704-8407-9, 70-0704-8408-7, 70-0704-8409-5, 70-0704-8410-3, 70-0704-8538-1, 70-0704-8764-3, 70-0705-2064-1, 0705-7735-1, 70-0705-7736-9, 70-0705-7864-9, 70-0705-7865-6, 70-0705-7910-0, 70-0705-7938-1, 70-0705-7971-2, 70-0705-7996-9, 70-0706-6017-3, 70-0706-6148-6, 70-0706-6149-4, 70-0707-0601-8, 70-0707-4203-9, 70-0707-4208-8, 70-0707-4394-6, 70-0707-5008-1, 70-0707-5123-8, 75-0299-0523-1, 75-0299-1726-9, 75-5410-0040-4, 98-0212-0414-8, 98-0212-1022-8, 98-0212-1022-8, 98-0212-0414-8, 98-0214-8, 98-024-8, 98 0212-1023-6, 98-0212-1024-4, 98-0212-1025-1, 98-0212-1167-1, 98-0212-2725-5, 98-0212-2726-3, 98-0212-2727-1, 98-0212-2743-8, 98-0212-2744-6, 98-0212-2745-3, 98-0212-2771-9, 98-0212-2778-4, 98-0212-2828-7, 98-0212-2829-5, 98-0212-2830-3, 98-0212-2906-1, 98-0212-2907-9, 98-0212-2956-6, 98-0212-2958-2, 98-0212-2972-3, 98-0212-3037-4, 98-0212-3053-1, 98-0212-305-1, 98-020-1, 98-020 0212-3054-9, 98-0212-3055-6, 98-0212-3056-4, 98-0212-3057-2, 98-0212-3060-6, 98-0212-3071-3, 98-0212-3072-1, 98-0212-3057-2, 98-0212-3060-6, 98-0212-3071-3, 98-0212-3072-1, 98-0212-3057-2, 98-0212-3060-6, 98-0212-3071-3, 98-0212-3072-1, 98-0212-3057-2, 98-0212-3060-6, 98-0212-3071-3, 98-0212-3072-1, 98-0212-3057-2, 98-0212-3060-6, 98-0212-3071-3, 98-0212-3072-1, 98-0212-3057-2, 98-0212-3060-6, 98-0212-3071-3, 98-0212-3072-1, 98-0212-1, 98-0212-1, 98-0212-3072-1, 98-0212-3072-1, 98-0212-1, 98-020

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Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

# **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**

Contact 3M for more information.

### ADDITIONAL INFORMATION

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

#### 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(r)) 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(r) ratings are to be used with a fully implemented HMIS(r) program. HMIS(r) is a registered mark of the National Paint and Coatings Association (NPCA).

Revision Changes: Section 14: ID Number(s) was modified.

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