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**FOR CHEMICAL EMERGENCY
CALL (800) 424-9300 24 HRS.**

SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: PART #22, Glass Microspheres

PRODUCT USE: Lightweight Filler

SECTION 2 - INGREDIENTS

<u>INGREDIENT:</u>	<u>C.A.S. NO:</u>	<u>PERCENT:</u>
SODA LIME BOROSILICATE GLASS	65997-17-3	97.0 - 100.0
AMORPHOUS SILICA	7631-86-9	< 3.0

SECTION 3 – HAZARDS IDENTIFICATION

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:

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 heat or blushed colored skin (cyanosis), sputum production and and changes in lung function test.

Ingestion:

Gastrointestinal irritation: Sign/symptoms may include abdominal pain, nausea, diarrhea and vomiting.

SECTION 4 - FIRST AID MEASURES

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

FLAMMABLE PROPERTIES

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

EXTINGUISHING MEDIA

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

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 (Section10)** for hazardous and thermal decomposition information.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Observe precautions from the other sections. 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 materials as soon as possible.

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

SECTION 7 – HANDLING AND STORAGE

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.

STORAGE

Store away from oxidizing agents.

SECTION 8- EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

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

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Eye/Face Protection - Avoid eye contact

The following eye protection(s) are recommended. Safety Glass with side shields.

Skin Protection - Select and use gloves and/or protective clothing to prevent skin contact based on results of an exposure assessment. Consult with your glove and/or protective clothing manufacture for selection of appropriate compatible materials
Gloves made from the following material(s) are recommended: Neoprene Nitrile Rubber.

Respiratory Protection - Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations. Half face piece or full face air-purifying respiration with P95 particulate filters.

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

EXPOSURE GUIDELINES

<u>Ingredient</u>	<u>Authority</u>	<u>Type</u>	<u>Limit</u>	<u>Additional Information</u>
SODA LIME BOROSILICATE GLASS	3M	TWA-as dust	10 mg/m3	
AMORPHOUS SILICA	CMRG	TWA As respirable dust	3 mg/m3	

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

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, 70-0703-2737-7, 70-0703-2749-2, 70-0703-2791-4, 70-0703-2798-9, 70-0703-2800-3, 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-, 70-0704-2956-1, 70-0704-2957-9, 70-0704-2958-7, 70-0704-2959-5, 70-0704-2961-1, 70-0704-2962-9, 70-0704-2970-2, 70-0704-2971-0, 70-0704-5810-7, 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, 70-0704-5824-8, 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, 70-0705-7728-6, 70-0705-7729-4, 70-0705-7730-2, 70-0705-7731-0, 70-0705-7732-8, 70-0705-7733-6, 70-0705-7734-4, 70-0705-7735-1, 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, 98-0212-1023-6, 98-0212-1024-4, 98-0212-1025-4, 98-0212-1167-1, 98-0212-2725-5, 98-0212-2726-3, 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, 98-0212-3054-9, 98-0212-3055-6, 98-0212-3056-4, 98-0212-3057-2, 98-0212-3060-6, 98-0212-3071-3, 98-0212-3072-1, 98-0212-3195-0, 98-0212-3206-5, 98-0212-3207-3, 98-0212-3208-1, 98-0212-3209-9, 98-0212-3210-7, FS-9000-2140-3, FS-9000-2146-0, 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-9100-0415-9, FS-9100-0435-7, FS-9100-0437-3, FS-9100-0441-5, FS-9100-0444-9, FS-9100-0623-8, FS-9100-0700-4, FS-9100-0701-2, FS-9100-0746-7, FS-9100-0805-1, FS-9100-0835-8, FS-9100-0836-6, FS-9100-0837-4, FS-9100-0838-2, FS-9100-0839-0, FS-9100-0840-8, FS-9100-8041-6, FS-9100-0843-2, FS-9100-0846-5, FS-9100-0882-0, FS-9100-1029-7, FS-9100-1463-8, FS-9100-1642-7, FS-9100-1717-7, FS-9100-1743-3, FS-9100-1950-4, FS-9100-2363-9, FS-9100-2364-7, FS-9100-2365-4, FS-9100-2366-2, FS-9100-2398-5, FS-9100-2425-6, FS-9100-2629-3, FS-9100-2707-7, FS-9100-2708-5, FS-9100-2709-3, FS-9100-2710-1, FS-9100-2711-9, FS-9100-2757-2, FS-9100-2888-5, FS-9100-2984-2, FS-9100-3019-6, FS-9100-3020-4, FS-9100-3021-2, FS-9100-3085-7, ZF-9100-1831-6

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

311/312 Hazard Categories:

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

STATE REGULATIONS

CHEMICAL INVENTORIES

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

INTERNATIONAL REGULATIONS

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 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 in significant quantities.

HMIS Hazard Classification

Health: 1 Flammability: 0 Reactivity: 0 Protection: X See PTE Section
Hazardous Material Identification System (HMIS®) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on inherent properties of the material under expected conditions of normal use and are not intended for use in the emergency regulations. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Print and Coating Association (NPCA).

SECTION 17 - COMMENTS

The information accumulated herein is believed to be accurate but is not warranted to be, whether originating with Fibre Glast Developments Corporation or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.