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**Material Safety Data Sheet**

May be used to comply with  
 OSHA's Hazard Communication Standard,  
 29 CFR 1910.1200. Standard must be  
 consulted for specific requirements.

**U.S. Department of Labor**  
**Occupational Safety and Health Administration**  
**(Non-Mandatory Form)**  
 Form Approved  
 OMB No. 1218-0072



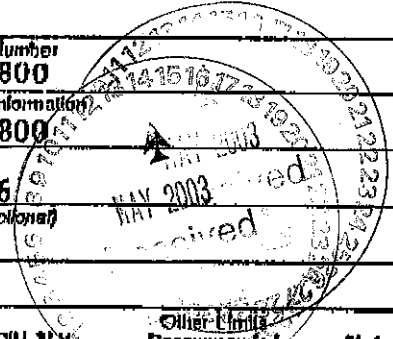
163-0440

IDENTITY (As Used on Label and List) **CAS 65997-18-4\***  
**Jewel Effect Lumps Lead Free (Frit)**

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

**Section I**

Manufacturer's Name [REDACTED]	Emergency Telephone Number 1-606/291-3800
Address (Number, Street, City, State, and ZIP Code) 650 Colfax Ave.	Telephone Number for Information 1-606/291-3800
Bellevue, KY 41073	Date Prepared June 5, 1986
	Signature of Preparer (optional)



**Section II — Hazardous Ingredients/Identify Information**

Hazardous Components (Specific Chemical Identity; Common Name(s)) OSHA PEL ACGIH TLV Other Limits Recommended % (optional)

Although these products contain some elements which have low LTV values as soluble metal ions, these frits are formed at high temperatures and do not necessarily have any of the properties of their component oxides or metals.

**Section III — Physical/Chemical Characteristics**

Boiling Point	N/A	Specific Gravity (H <sub>2</sub> O = 1)	>2.0
Vapor Pressure (mm Hg)	N/A	Melting Point	>850°F
Vapor Density (Air = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	0%
Solubility in Water	0%		

Appearance and Odor  
 Odorless Glass

**Section IV — Fire and Explosion Hazard Data**

Flash Point (Method Used)	None	Flammable Limits	None	LEL	N/A	UEL	N/A
Extinguishing Media	None						
Special Fire Fighting Procedures	None						
Unusual Fire and Explosion Hazards	None						

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**Section V — Reactivity Data**

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Stability	Unstable	Conditions to Avoid	None
	Stable		
		X	

Incompatibility (Materials to Avoid) **None**

Hazardous Decomposition or Byproducts **None**

Hazardous Polymerization	May Occur	Conditions to Avoid	None
	Will Not Occur		
		X	

**Section VI — Health Hazard Data**

Route(s) of Entry: Inhalation? **Yes** Skin? **No** Ingestion? **Yes**

Health Hazards (Acute and Chronic) **Alkali boro silicate glass. 15 mg/M<sup>3</sup> for inert or nuisance dust.**

Carcinogenicity: None NTP? **N/A** IARC Monographs? **N/A** OSHA Regulated? **No**

Signs and Symptoms of Exposure **Dust may irritate eyes. Prolonged exposure may cause irritation to respiratory track.**

Medical Conditions Generally Aggravated by Exposure **Not known**

Emergency and First Aid Procedures **Remove to dust free fresh air. If irritation develops, call a physician.**

**Section VII — Precautions for Safe Handling and Use**

Steps to Be Taken in Case Material is Released or Spilled **If not contaminated, scoop up and use. If contaminated, sweep up and discard in suitable container.**

Waste Disposal Method **Dispose according to Federal, State, and Local regulations.**

Precautions to Be Taken in Handling and Storing **Wear appropriate respirator if 15 mg/M<sup>3</sup> working conditions are exceeded.**

Other Precautions

**Section VIII — Control Measures**

Respiratory Protection (Specify Type) **Use NIOSH approved dust respirator.**

Ventilation	Local Exhaust	Special	None
	Mechanical (Cleaning)	Other	
Adequate for dust control.			
Vent dust to collector.			

Protective Gloves **Use judgement - use work gloves.** Eye Protection **Use judgement - avoid getting enamel in eyes.**

Other Protective Clothing or Equipment **Be clean and neat. Wear clean clothes.**

Work Hygiene Practices **No eating or smoking when using enamel.**