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	Revision 1.2	Date 5/4/2006
L	M	aterial Safety Data Sheet
	Product	F 413
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Product Identification		F 413
Chemical Family		Frits, Chemicals
CAS Number		65997-18-4
Prepared By		Nath Viswanath

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Reactivity

Personal Protection

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Product

F 413

1. HAZARDOUS COMPONENTS

Frit is a fused silicate glass substance. The components of this glass product listed below are from the inventory of potentially hazardous substances referenced by FED-OSHA in 29 CFR 1910.1200.

Exposure Limit (Air) mg/m³

Component ACGIH/TLV FED-OSHA/PEL CAL-OSHA/PEL

Particulates not

otherwise classified (Σ Dust) 10 / 3 (respirable) 15 10

*(A) Only present as part of frit CAS # 65997-18-4

2. HEALTH HAZARD DATA

Primary Routes of Exposure

Exposure to dust may be irritating to eyes, nose and throat. At very high exposure levels the dust may have an effect on the lungs. Inhalation, Eye Contact, Skin Contact, and Ingestion are the typical method of exposure.

Inhalation

Dusts may cause irritation of the nose, throat, and respiratory tract.

Eye Contact

Direct contact with this material may irritate eye tissue. Symptoms can include irritation, redness, and tearing.

Skin Contact

seek medical attention.

Prolonged contact to this product can lead to drying of the skin which can cause irritation.

Ingestion

Ingestion of this material can cause irritation of the throat, stomach, and gastrointestinal tract.

Source of Health Hazard Data

This MSDS was developed from information on the constituent substances of this frit material, not from test data on the frit itself.

3. EMERGENCY AND FIRST AID PROCEDURES

If overexposure is suspected move the person to fresh air. If breathing is difficult give oxygen. Call a physician. For dust in eyes: flush immediately with clean water and call a physician. Skin irritation: wash affected areas thoroughly with soap and water. If irritation persists,

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4. PRECAUTIONS FOR SAFE HANDLING AND USE

Handling Procedures

Avoid inhalation of dusts. Avoid contact with skin and eyes. Prevent the buildup of dusts. Wash thoroughly after handling. Keep container closed and dry.

Storage Procedures

Store in a closed container in a cool, dry area.

Other

Containers may be considered as hazardous when empty. Follow all MSDS and label warnings even when container is emptied. Dispose of container according to all applicable State, Federal, and local laws.

5. CONTROL MEASURES

Respiratory Protection

A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever work place conditions warrant a respirators use.

Eye Protection

Use chemical resistant splash goggles at all times. Wear safety glasses with side shields.

Hand protection

Chemical resistant gloves should be used whenever this material is handled. Rinse and wash hands after removing gloves.

Full body clothing and appropriate footwear should be worn all times.

Engineering Controls (Ventilation)

Engineering and / or administrative controls should be implemented to reduce exposure levels. Refer to the current specification requirements OSHA 29 CFR CFR 1910.94 or the current edition of Industrial Ventilation.

Engineering and / or administrative controls should be implemented to reduce exposure levels. Refer to the current specification requirements OSHA 29 CFR.

6.FIRE & EXPLOSION HAZARD DATA

Flash Point: N/A
Flammable Limits: N/A
Extinguishing Media None
Unusual Fire & Explosion Hazards None

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7. PHYSICAL DATA

Specific Gravity 1.5-3.0 (*H2O=1*)

Solubility in Water Negligible

Appearance Fine Powder or Granular

Odor Odorless

8. REACTIVITY DATA

Stability Stable

Hazardous Polymerization Will not occur

Hazardous Decomposition Avoid fumes from firing.

9. TRANSPORTATION INFORMATION

DOT - Domestic surface Hazard class Not Regulated IMO / IMDG Code - Ocean Hazard class Not Regulated ICAO / IATA - AIR Hazard class Not Regulated

This product is not regulated as a hazardous material by the US (DOT) or

Canadian (TDG) transportation regulations.

10. SARA Title 3 - Section 313

This product contains the following chemical(s) that require reporting under Section 313 of the Emergency Planning and Community Right-to-Know Act, also known as Title 3 of SARA and 40 CFR part 372.

COMPONENT (*A) % PRESENT

(*A) The percent reported is based on the theoretical composition and only present as part of frit CAS # 65997-18-4

11. DISCLAIMER

The information contained herein relates only to the specific material identified. Reasonable care has been taken in the preparation of this information, but Fusion Ceramics, Inc. extends no warranties, makes no representations and assumes no responsibility as to the accuracy or suitability of this information. Fusion Ceramics, Inc. urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.

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Abbreviations Used on Material Safety Data Sheets

ACGIH American Conference of Government Industrial Hygienists CAL-OSHA California Occupational Safety and Health Administration

CAS Number Chemical Abstract Service Number

CFR Code of Federal Regulations

FED-OSHA Federal Occupational Safety and Health Administration

IARC International Agency for Research on Cancer

NIOSH National Institute for Occupational Safety and Health

PEL Permissible Exposure Limit TSCA Toxic Substances Control Act

TLV Threshold Limit Value

DOT Department of Transportation IMO International Maritime Organization

IMDG Code International Maritime Dangerous Goods Code

ICAO International Civil Aviation Organization IATA International Air Transport Association

SARA Superfund Amendments and Reauthorization Act