MATERIAL SAFETY DATA SHEET

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TO THE PURCHASER: This MSDS contains important environmental, safety, and health information for your employees. Federal regulations require that this information be made available to them. If you resell this product, a copy of this MSDS should be given to the buyer.

**PRODUCT IDENTIFICATION: 
3134 / 3134-2 / 3134-3 
(Ferro*frit*3134*)

**CHEMICAL FAMILY: Frits; TSCA Inventory CAS # 65997-18-4*

**SYNONYM: Chemical substances manufactured in the production of frit
(From US-EPA/TSCA description) "Frit is a mixture of inorganic chemical substances produced by rapidly quenching a molten, complex combination of materials, confining the chemical substances thus manufactured as nonmigratory components of glassy solid flakes or granules. --"
SECTION IIb - "SARA III" DATA

This product contains the following component(s) that require reporting under Section 313 of the Emergency Planning and Community Right-to-Know Act, also known as Title III of SARA (the Superfund Amendments and Reauthorization Act), and 40 CFR Part 372:

COMPONENT
None

(a) The percent reported is based on the theoretical composition of this frit. While existing in theory, the component(s) mentioned are only present as part of Frit (Cas # 65997-18-4*).

SECTION III - PHYSICAL HAZARD DATA

SPECIFIC GRAVITY ($H_2O = 1$) _approx. 2.61_ MELTING POINT ($^\circ F$) _above 1200_
SOLUBILITY IN WATER _Negligible_
APPEARANCE AND ODOR _Frit flake or milled glass powder_/Odorless_
Boiling Point / Vapor Pressure / Vapor Density / % Volatile By Volume / Evaporation Rate _All N/A_

SECTION IV - FIRE & EXPLOSION HAZARD DATA

FLASH POINT (method used): _N/A_ FLAMMABLE LIMITS: _N/A_
EXTINGUISHING MEDIA: _None_required not_combustible_
SPECIAL FIRE FIGHTING PROCEDURES: _None_ UNUSUAL FIRE & EXPLOSION HAZARDS: _None_

SECTION V - REACTIVITY DATA

STABILITY: Stable _X_ Unstable _N/A_ (Conditions To Avoid) _N/A_
INCOMPATIBILITY: (Materials To Avoid) _N/A_
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Avoid fumes from firing
HAZARDOUS POLYMERIZATION: Will Not Occur _X_ (Conditions To Avoid) _N/A_
SECTION VI - HEALTH HAZARD DATA

PRINCIPAL ROUTES OF ABSORPTION: Inhalation and Ingestion

EFFECTS OF OVEREXPOSURE: Prolonged contact with frit dust can be very irritating to the eyes and/or skin. High dust levels can be irritating to the respiratory tract. With adequate ventilation, dust control, and good personal hygiene, symptoms of overexposure should not occur. Advise regular medical monitoring of employees by a physician competent in industrial health.

CARCINOGENICITY: N/A

EMERGENCY AND FIRST AID PROCEDURES: If overexposure is suspected move employee 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.

SOURCE OF HEALTH HAZARD DATA: This MSDS was developed from information on the constituent substances of this fritted compound, not from test data on the frit itself.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Uncontaminated material may be recovered and re-used. If contaminated scoop, vacuum, or wash into a receptacle for disposal.

WASTE DISPOSAL METHOD: Follow Federal or State and Local regulations for disposal.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Protect containers against physical damage; store in dry area away from feed and food products.

OTHER PRECAUTIONS: Employees should wash and change into clean clothes before going home.
SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: (Specify Type) Use a NIOSH approved dust and/or fume respirator as necessary.

VENTILATION: Local Exhaust - Recommended for dust control; vent dust to collector.

PROTECTIVE GLOVES: Use judgment - work gloves recommended.

EYE PROTECTION: Use judgment - safety glasses recommended.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear appropriate clean, protective clothing such as, but not limited to, coveralls, smocks, aprons, gloves, shoes, and hats.

WORK/Hygienic Practices: Food, beverages, and smoking materials should NOT be in the work area. Hygiene is VERY important; employees should wash thoroughly before eating, drinking, smoking, or applying cosmetics.

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Non-Standard Abbreviations Used on Material Safety Data Sheets

ACGIH - American Conference of Governmental Industrial Hygienists
CAL/OSHA - California Occupational Safety and Health Administration
CAS # - Chemical Abstract Service Number
CFR - Code of Federal Regulations
FED/OSHA - Federal Occupational Safety and Health Administration
IARC - International Agency for Research on Cancer
MSDS - Material Safety Data Sheet
N/A - Not Applicable
NIOSH - National Institute for Occupational Safety and Health
PEL - Permissible Exposure Limit
TSCA - Toxic Substances Control Act
TLV - Threshold Limit Value (registered terminology of ACGIH)
TWA - Time Weighted Average
US-EPA - United States Environmental Protection Agency