



Distributed by:  
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# Material Safety Data Sheet

Product Name  <b>FRIT 469</b>	Note: Do not leave fields blank. IF some point does not apply or is not specified, must be identified as follows: N / A: Not Applicable N / S: Not Specified
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## Section I: Identification of the Manufacturer

Name of Manufacturer  <b>MACESA Fritas</b>	In an emergency call: <b>(01152) 81 24 81 99</b>
Address:  BOULEVARD DIAZ ORDAZ Km. 335.5 GARZA GARCIA, N.L. MEXICO CP 66230	For Information call: <b>(01152) 81 24 82 34</b>
	Preparation date: <b>8/19/2010</b>
	Sign

## Section II: Hazardous Ingredients

Component Name	No. CAS	Concentration (%)	OSHA PEL (mg/m3)	ACGIH TLV (mg/m3)	Other Limits Recommended
1 <b>Lead Monoxide</b>	<b>13 17-36-8</b>	<b>50-55 %</b>	<b>0.05</b>	<b>0.05</b>	<b>N/E</b>
2 <b>Sodium tetraborate pentahydrate</b>	<b>12179-04-3</b>	<b>65- 70 %</b>	<b>10 / %SiO2 +2</b>	<b>0.05</b>	<b>0.05</b>
3					
4					

## Section III: Physical and Chemical Characteristics

Boiling point	<b>N/A</b>	Specific Gravity (H2O = 1)	<b>3.81 grs/cc</b>
Vapor Pressure (mmHg)	<b>N/A</b>	Melting point	<b>N/E</b>
Vapor Density (Air = 1)	<b>N/A</b>	Evaporation Ratio (butylacetate = 1)	<b>N/A</b>
Water solubility:  <b>Insoluble</b>	Appearance and Odor:  <b>Powder, odorless. Color may vary.</b>		

## Section IV: Fire and Explosion

Flash Point (include method of determining) <b>N/A</b>	Flammability Limits	Inferior <b>N/A</b>	Superior <b>N/A</b>
Extinguishing Media <b>No danger of fire</b>			
Special procedures for fire fighting <b>No danger of fire</b>			
Unusual danger and explosion <b>Not required</b>			

O+D15

## Section V: Reactivity

Unstable	<b>N/A</b>	Conditions to avoid
Stable	<b>Stable</b>	Avoid contact with acids (eg, acetic, hydrofluoric, etc.).
Incompatibility (Materials to Avoid) <b>Avoid contact with acids (eg, acetic, hydrofluoric, etc.).</b>		
Hazardous Decomposition Products: <b>Under normal conditions, this product does not release after the application materials</b>		
Hazardous Polymerization:	<b>N/A</b>	Conditions to avoid <b>N/A</b>

## Section VI: Health Hazards

Route of Entry:	Inhalation	NO	Skin	SI	Ingestion	NO
Health Hazards (Acute and Chronic)						
<b>Acute: Improper handling of chips, without the appropriate PPE, can cause small lesions in contact with skin and eyes</b>						
<b>Chronic: Excessive inhalation of respirable crystalline silica can cause silicosis.</b>						
<b>The International Agency for Research on Cancer (IARC) concluded that there is evidence in humans for the carcinogenicity of crystalline silica in the forms of quartz from occupational sources.</b>						
Cancer risk	NTP?	<u>YES</u>	IARC Monograph	<u>YES</u>	OSHA Regulated	<u>YES</u>
Symptoms of Exposure <b>Excessive exposure to dust from the chip without the proper PPE, may irritate eyes, skin and respiratory tract</b>						
Medical conditions aggravated by exposure <b>Workers with poor respiratory capacity should have limited exposure to this material.</b>						
Emergency procedures and first aid. <b>Skin: Wash with soap and clean water to the affected area</b> <b>Inhalation: Remove the person from exposure, moving to a place with clean, fresh air, if breathing has stopped, provide artificial respiration.</b> <b>Ingestion: Get immediate medical attention</b> <b>Eyes: Remove the person from exposure and flush the eye with large amounts of clean water, lifting the upper eyelid and down the bottom</b>						

### Section VII: Procedures for safe handling and use

Procedure in case of spills <b>Use appropriate PPE. Do not dry sweep, proceed to your collection, with a practice that eliminates the generation of dust (which may</b>
Disposal method <b>Place material in suitable containers, identified and provided in accordance with federal, state and local</b>
Precautions for handling and storage <b>NOT REQUIRED</b>
Other Precautions <b>Use appropriate gloves to work with frit</b>

### Section VIII: Personal Protective Equipment

Respiratory Protection (Specify Type) <b>NOISH approved dust and mist</b>
Ventilation: <b>Use adequate ventilation to maintain dust exposure below recommended limits. Avoid breathing dust. The greatest potential for exposure to</b>
Eyes: <b>Use safety glasses or goggles. Do not use contact lenses in work areas.</b>
Skin: <b>Use cotton gloves or skin to minimize exposure of the skin. Wash hands with soap and water before eating, drinking, smoking and end of</b>
Other clothing and equipment <b>Note: Personal protection information indicated in this document is based on general information under normal conditions. Where special</b>

### Section IX: Regulations

SARA Report <b>N/A</b>
Regulations for the Transportation (DOT) <b>This material is considered as non-hazardous for ground transportation and / or Air</b>
(TSCA) <b>The components of this product have been introduced in the U.S. trade and are listed in the inventory of TSCA (Toxic Substance Control</b>