



Distributed by:
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Material Safety Data Sheet

Product Name FRIT 472	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 MACESA Fritas	In an emergency call: (01152) 81 24 81 99
Address: BOULEVARD DIAZ ORDAZ Km. 335.5 GARZA GARCIA, N.L. MEXICO CP 66230	For Information call: (01152) 81 24 82 34
	Preparation date: 8/19/2010
	Sign

Section II: Hazardous Ingredients

Component Name	No. CAS	Concentration (%)	OSHA PEL (mg/m3)	ACGIH TLV (mg/m3)	Other Limits Recommended
1 Lead Monoxide	13 17-36-8	30-35 %	0.05	0.05	N/E
2 Silica	14808-60-7	35-40 %	10 % / SiO2 +2	0.025	N/E
3 Boric Acid	10043-35-3	10-15 %	15	10	N/E
4					

Section III: Physical and Chemical Characteristics

Boiling point	N/A	Specific Gravity (H2O = 1)	N/E
Vapor Pressure (mmHg)	N/A	Melting point	169°C
Vapor Density (Air = 1)	N/A	Evaporation Ratio (butylacetate = 1)	N/A
Water solubility: Insoluble	Appearance and Odor: Powder, odorless. Color may vary.		

Section IV: Fire and Explosion

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

O+D15

Section V: Reactivity		
Unstable	N/A	Conditions to avoid
Stable	Stable	POTASSIUM, ANIHIDRO ACETIC, alkali, carbonate and hydroxides
Incompatibility (Materials to Avoid) POTASSIUM, ANIHIDRO ACETIC, alkali, carbonate and hydroxides		
Hazardous Decomposition Products: Under normal conditions, this product does not release after the application materials		
Hazardous Polymerization:	N/A	Conditions to avoid N/A

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

Section VII: Procedures for safe handling and use

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

Section VIII: Personal Protective Equipment

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

Section IX: Regulations

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