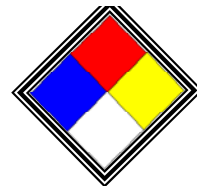




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Material Safety Data Sheet



IDENTITY (As Used on Label and List) FRIT 472	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.
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Section I - Manufacturer & Distributor Information

Manufacturer's Name MACESA Fritas	Emergency Telephone Number (01152) 81 24 81 99
Address (Number, Street, City, State, Country and Postal Code) BOULEVARD DIAZ ORDAZ Km. 335.5 GARZA GARCIA, N.L. MEXICO CP 66230	Telephone Number For Information (01152) 81 24 82 34
	Date Prepared 03/01/2015
	Signature Of Preparer (Optional)
Distributor's Name Dal-tile México	Distributor's Telephone Number (01152) 81 24 82 34 / 28

Section II - Hazard Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	CAS Number	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
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Section III - Physical/Chemical Characteristics

Boiling Point (Specify °F or °C)	N/A	Specific Gravity (H ₂ O = 1)	N/A
Vapor Pressure (mm Hg.)	N/A	Melting Point	169°C
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility In Water Insoluble	Appearance And Odor Color may vary and Odorless		

Section IV - Fire and Explosion Hazard Data

Flash Point <i>(Include Method Used To Determine)</i> N/A	Flammable Limits	LEL	UEL
		N/A	
Extinguishing Media None required.			
Special Fire Fighting Procedures None required.			
Unusual Fire And Explosion Hazards None required.			

O+D15

Section V - Reactivity Data

Unstable	N/A	Conditions To Avoid
Stable	Stable in current form.	Avoid contact with acids (e.g., acetic, hydrofluoric, etc.)
Incompatibility <i>(Materials To Avoid)</i> Avoid contact with acids (e.g., acetic, hydrofluoric, etc.)		
Hazardous Decomposition Or Byproducts Under normal conditions these products do not release hazardous materials after installation.		
Hazardous Polymerization May Occur	N/A	Conditions To Avoid
Hazardous Polymerization Will Not Occur	N/A	N/A

Section VI - Health Hazard Data

Route(s) Of Entry:	Inhalation <u>NO</u>	Skin? <u>YES</u>	Ingestion? <u>NO</u>
Health Hazards (Acute and Chronic) Acute: Improper handling of chips, without the proper PPE, may cause irritation to skin and respiratory tract.			
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 carcinogenicity of Crystalline Silica in the form of quartz from occupational sources.			
Carcinogenicity:	NTP? <u>YES</u>	IARC Monographs? <u>YES</u>	OSHA Regulated? <u>YES</u>
Signs And Symptoms Of Exposure Overexposure to dust fried without proper PPE, may irritate eyes, skin and respiratory tract			
Medical Conditions Generally Aggravated By Exposure Workers with poor respiratory capacity should have limited exposure to this material.			
Emergency And First Aid Procedures Skin: Wash with soap and clean water to the affected area Inhalation: Remove the person from exposure, moving to a place with clean and fresh air, if not breathing, provide artificial respiration. Seek medical attention Ingestión: Reciba atención médica inmediata Eyes: Remove the person from exposure and rinse the eye with large amounts of clean water, lifting the upper eyelid and the lower down repeatedly. If irritation persists get medical attention.			

Section VII - Precautions for Safe Handling and Use

Steps To Be Taken In Case Material Is Released Or Spilled Use appropriate PPE. Do not dry sweep, proceed to your collection, with a practice that eliminates dust generation (which can include wet methods or vacuum).
Waste Disposal Method Waste should be disposed of in a landfill certified to accept such materials in accordance with federal, state, and local regulations.
Precautions To Be Taken In Handling And Storing NOT REQUIRED
Other Precautions Use approved respiratory protection for dust and mist NOISH

Section VIII - Control Measures

Respiratory Protection (Specify Type) Approved for dust and mist NOISH
Ventilation: Use adequate ventilation to maintain dust exposure below recommended limits. Avoid breathing dust. The greatest potential for exposure to silica occurs during dry conditions. Wet methods are recommended
Eye Protection: Use safety glasses or goggles. Do not use contact lenses in work areas.
Skin Protection: Use cotton or leather gloves to minimize skin exposure. Wash hands with soap and water before eating, drinking, smoking and end of the working day, after working with frit.
Other Protective Clothing or Equipment: Note: The information on personal protection indicated in this document is based on general information under normal conditions. Where there are special or unusual conditions, the assistance of a qualified safety professional is suggested.

Section IX - Regulatory Section

SARA Reporting N/A
Department of Transportation (DOT) Regulations This material is NOT considered DANGEROUS for ground transportation and / or Air
Toxic Substance Control Act (TSCA) Components of this product have been introduced into U.S. commerce and are listed on the TSCA inventory (Toxic Substance Control Act)