



# Material Safety Data Sheet

<b>NFPA</b> 	<b>HCS Risk Phrases</b> <b>HCS Class: Irritating substance</b>	<b>Protective Clothing</b> Splash goggles Dust Respirator Gloves Work uniform or laboratory coat
-----------------	---	--

## Section I. Chemical Product and Company Identification

<b>Common Name/ Trade Name</b> <div style="text-align: center; font-size: 1.2em; font-weight: bold;"> <b>FRITZ-PAK MORTAR SET RETARDER</b> </div>	<b>Last Update</b> 03/01/2008
<b>Supplier/ Manufacturer:</b>	FRITZ-PAK CORPORATION 4821 Eastover Circle Mesquite, TX 75149 U.S.A. Tel: 214-221-9494 Fax: 214-349-3182
<b>Chemical Family</b> Citric Acid	<b>Material Uses</b> Concrete Additive

## Section II. Composition and Information on Ingredients:

Name	CAS #	% by Weight	TLV/PEL	LC <sub>50</sub> /LD <sub>50</sub>
Citric Acid Anhydrous	77-92-9	N/A	N/A	3 g/kg [rat]

## Section III. Hazards Identification

<b>Human Health Hazards</b> Causes irritation to skin and respiratory tract.
--

## Section IV. First Aid Measures

<b>Eye Contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
<b>Skin Contact</b>	Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
<b>Inhalation</b>	Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen. Get medical attention.
<b>Ingestion</b>	Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

## Section V. Fire and Explosion Data - Non-Flammable

<b>Extinguishing Media</b> Water spray dry chemical alcohol foam or carbon dioxide. <b>Suitable</b>
<b>Protection for Fire Fighters</b> Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

## Section VI. Accidental Release Measures

<b>Spills</b> Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. Ventilate area of leak or spill. Wear appropriate personal protective equipment such as impervious protective clothing, including boots, gloves, lab coat, respirator.
--

## Section VII. Handling and Storage

<b>Handling</b> Keep container tightly closed. Keep container dry.
<b>Storage</b> Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

*Continued on Next Page*

**Section VIII. Exposure Controls/Personal Protection**

**Engineering Measures** A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

**Personal Protection** Wear impervious protective clothing, including boots, gloves, lab coat, respirator.

**Section IX. Physical and Chemical Properties**

<b>Physical state and appearance</b>	Solid (powder)	<b>Odor</b>	Odorless
<b>Melting Point</b>	>100C	<b>Color</b>	Off-white
<b>Density</b>	1.542	<b>pH</b>	2.2
<b>Solubility</b>	60 g/100 ml @ 20C° (Anhydrous)		
<b>Flash Point</b>	Not applicable		
<b>Explosive Properties</b>	Not applicable		

**Section X. Stability and Reactivity Data**

**Stability** The product is stable.

**Section XI. Toxicological Information**

<b>Eye Contact</b>	May produce severe irritation
<b>Acute Toxicity</b>	ORAL (LD50): 3 g/kg [Rat].
<b>Skin Irritation</b>	May produce mild-severe irritation

**Section XII. Ecological Information**

**Persistence/degradability** No information found.

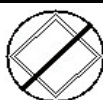
**Section XIII. Disposal Considerations**

**Waste Disposal** Waste should be managed in an appropriate and approved waste disposal facility. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

**Section XIV. Transport Information - Non-Hazardous**


**DOT Classification** Not a DOT controlled material (United States)

**DOT Pictograms**

**Section XV. Other Regulatory Information and Pictograms**

**Federal and State Regulations** Not available

<b>Other Classifications</b>	<b>WHMIS (Canada)</b>	Not controlled under WHMIS (Canada)
	<b>DSCL (EEC)</b>	R41 Irritating to eyes.

<b>HMIS (U. S. A.)</b>	<b>Health Hazard</b>	1	<b>National Fire Protection Association (U. S. A.)</b>	<b>Health</b> 	<b>Fire Hazard</b>
	<b>Fire Hazard</b>	1			
	<b>Reactivity</b>	0			
	<b>Personal Protection</b>	x			

**WHMIS (Canada) (Pictograms)**



**TDG (Canada) Pictograms**

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Fritz-Pak Corporation assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material.