SAFETY DATA SHEET

ECONOSET® 50 TC & DC

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name. . . . . : ECONOSET® 50 TC & DC
General Use. . . . . : A wet refractory mortar.

MANUFACTURER :

Allied Mineral Products, Inc.
2700 Scioto Parkway
Columbus, OH 43221

TELEPHONE NUMBERS :

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2. HAZARDS INDENTIFICATION

CLASSIFICATION:

Carcinogenicity, Category 2
Skin irritation, Category 3
Eye irritation, Category 2B
Target organ toxicity (repeated)-lungs, Category 1

LABELING:



Symbol: Health hazard
Signal word: Warning
Hazard statement: Suspected of causing cancer
Precautionary statement: Excessive inhalation of dust will increase the risk of silicosis. Some medical studies have concluded that there is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite from occupational sources. Avoid prolonged exposure to dust. Provide adequate ventilation and use suitable respirators if dust conditions warrant.

3. COMPOSITION/HAZARDOUS INGREDIENTS

Ingredient	CAS Registry #	Percent	Exposure Limits
Alumina silicate	1302-93-8	45-60	OSHA PEL = 15mg/m² total dust; 5mg/m² respirable dust. ACGIH TLV = 2mg/m² resp. dust.
Cristobalite	14464-46-1	<1	OSHA PEL = ½[(10mg/m²)/(%Silica+2)] resp. dust; ACGIH TLV = 0.025mg/m² respirable dust.
Sodium Silicate	1344-09-8	15-30	None established. Exposure may be evaluated as NaOH (PEL=2mg/m²; TLV ceiling 2mg/m²).
Quartz	14808-60-7	5-20	OSHA PEL = [(10mg/m²)/(%Silica+2)] resp. dust; ACGIH TLV = 0.025mg/m² respirable dust.
Silica, Amorphous (Glass)	7631-86-9	<3	OSHA PEL = 80mg/m²/% silica ACGIH TLV = 3 mg/m² respirable dust.

Some of the above ingredients are integral mineralogical constituents contained within the matrix of the raw materials.
Note 1: ACGIH TLV for total dust with no asbestos and less than one percent crystalline silica

4. FIRST AID MEASURES

Eyes.	:	Flush eyes thoroughly with water for at least 15 minutes. Consult physician.
Skin.	:	Wash with a mild soap and water.
Ingestion.	:	No adverse effects anticipated by swallowing.
Inhalation.	:	Remove to fresh air. If not breathing, give artificial respiration. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

Fire and Explosion Hazards.	:	ECONOSET® 50 TC & DC is non-combustible and will not contribute to the intensity of a fire.
Flash Point and Method. . . .	:	Not Applicable.
Flammable Limits.	:	Not Applicable.
Autoignition Temperature. . .	:	Not Applicable.
Extinguishing Media.	:	As appropriate for the surrounding fire.
Fire Fighting Equipment. . . .	:	As appropriate for the surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

Spill/Leak Procedures.	:	Reuse any spilled material where possible. Carefully scoop material into a suitable container. If conditions warrant, clean-up personnel should wear approved respiratory protection, gloves, and goggles to prevent irritation from contact and/or inhalation. Spilled material poses no threat to the environment. See section 12.

7. HANDLING AND STORAGE

Handling.	:	ECONOSET® 50 TC & DC requires no special handling other than adherence to good industrial practices.
Storage.	:	Keep covered to prevent dry-out.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Ventilation.	:	Provide adequate general ventilation and local ventilation to control mist and/or dust levels below the TLV.
Personal Protective Equipment		
Eyes.	:	Goggles
Skin.	:	Long sleeve clothing
Inhalation.	:	Dust mask
Other.	:	Gloves

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point.	:	Not Applicable.
Vapor Pressure.	:	Not Applicable.
Vapor Density.	:	Not Applicable.
Solublity in Water.	:	1-3 (%)
Specific Gravity (H_2O=1). . .	:	2.0-2.3
Melting Point.	:	>3300°F
pH.	:	8 - 10

10. STABILITY AND REACTIVITY

Chemical Stability.	:	ECONOSET® 50 TC & DC is stable under normal ambient and anticipated conditions of temperature and pressure.
Incompatible Materials and Conditions to Avoid.	:	None.
Hazardous Polymerization. .	:	Will not occur.
Hazardous Decompositon. . .	:	Will not occur.

11. TOXICOLOGICAL INFORMATION

There are no known health effects that can arise from the as-manufactured ECONOSET® 50 TC & DC. There is no evidence to suggest that ECONOSET® 50 TC & DC itself is carcinogenic.

12. ECOLOGICAL INFORMATION

ECONOSET® 50 TC & DC is virtually insoluble and immobile and poses no threat to the environment if accidentally released on land or into water.

13. DISPOSAL CONSIDERATIONS

ECONOSET® 50 TC & DC as-manufactured is not considered a hazardous waste. However, before destruction of the refractory lining, customers are advised to evaluate any changes to the product that may occur by the introduction of substances or operating conditions outside the control of the vendor.

14. TRANSPORT INFORMATION

ECONOSET® 50 TC & DC is not a DOT Hazardous Material and contains no DOT Hazardous components.

15. REGULATORY INFORMATION

Section 2 lists OSHA exposure limits for chemicals considered by OSHA to be air contaminants.

16. OTHER INFORMATION

Although reasonable care has been taken in the preparation of the information contained herein, Allied Mineral Products, Inc. extends no warranties, makes no representations and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use.

WARNING: This product may contain respirable crystalline silica; a chemical known to the State of California to cause cancer.

Health Hazard . . . . . : 2-Moderate
Flammability Hazard . . . . . : 0-Minimal
Reactivity Hazard . . . . . : 0-Minimal
Personal Protection . . . . . : B-Glasses, gloves