



SAFETY DATA SHEET

ECONOCAST™ 28

Page. : 1 of 4

Print Date. : February 10, 2017

Revised. : January 31, 2017

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name. : ECONOCAST™ 28
General Use. : A multi-purpose refractory castable.

MANUFACTURER :

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

TELEPHONE NUMBERS :

Phone. : (614) 876-0244
E-mail. : sdsinfo@alliedmin.com

2. HAZARDS IDENTIFICATION

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

<u>Ingredient</u>	<u>CAS Registry #</u>	<u>Percent</u>	<u>Exposure Limits</u>
Alumina silicate	1302-93-8	45-60	OSHA PEL = 15mg/m ² total dust; 5mg/m ² respirable dust. ACGIH TLV = 2mg/m ² resp. dust.
Cement, Calcium Aluminate	65997-16-2	15-30	OSHA PEL = 15mg/m ² total, 5mg/m ² resp. dust; ACGIH TLV = 10mg/m ² total dust. See note 1.
Cristobalite	14464-46-1	<10	OSHA PEL = ½[(10mg/m ²)/(%Silica+2)] resp. dust; ACGIH TLV = 0.025mg/m ² respirable dust.
Quartz	14808-60-7	<10	OSHA PEL = [(10mg/m ²)/(%Silica+2)] resp. dust; ACGIH TLV = 0.025mg/m ² 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



SAFETY DATA SHEET

ECONOCAST™ 28

Page. : 2 of 4

Print Date. : February 10, 2017

Revised. : January 31, 2017

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. : ECONOCAST™ 28 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. : ECONOCAST™ 28 requires no special handling other than adherence to good industrial practices.
- Storage. : Contact with water will cause material to set-up and become unusable.

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



SAFETY DATA SHEET

ECONOCAST™ 28

Page. : 3 of 4

Print Date. : February 10, 2017

Revised. : January 31, 2017

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point. : Not Applicable.
Vapor Pressure. : Not Applicable.
Vapor Density. : Not Applicable.
Solubility in Water. : Slight
Specific Gravity (H₂O=1). . . : 2.1
Melting Point. : >2800°F
pH. : 11.5 (10% Aqueous Slurry)

10. STABILITY AND REACTIVITY

Chemical Stability. : ECONOCAST™ 28 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 ECONOCAST™ 28. There is no evidence to suggest that ECONOCAST™ 28 itself is carcinogenic.

12. ECOLOGICAL INFORMATION

ECONOCAST™ 28 is virtually insoluble and immobile and poses no threat to the environment if accidentally released on land or into water.

13. DISPOSAL CONSIDERATIONS

ECONOCAST™ 28 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.



SAFETY DATA SHEET

ECONOCAST™ 28

Page. : 4 of 4

Print Date. : February 10, 2017

Revised. : January 31, 2017

14. TRANSPORT INFORMATION

ECONOCAST™ 28 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 : E-Glasses, gloves, dust mask