

MATERIAL SAFETY DATA SHEET

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Section 1. Chemical Product and Company Identification

Product Code WCF1-5"1	
Product Name WHITE CERAMIC FILLER, SINTERED ALUMINA CERAMIC	
Manufacturer's Name Mark V Laboratory, Inc.	Emergency Telephone Number CHEMTREC 800-424-9300
Address (Number, Street, City, State, and ZIP Code) 18 Kripes Road	Telephone Number For Information (860) 653-7201
Post Office Box 540	Date Prepared July 1, 2013
East Granby, Connecticut 06026	Signature of Preparer (optional)

Section 2. Composition / Information on Ingredients

Component	CAS Registry #	wt. %	Exposure Limits	
			ACGIH TLV	OSHA PEL
Aluminum Oxide	1344-28-1	>85	10mg/m (T)	15mg/m (T) 5mg/m (R) (as Al)
Amorphous Phase		<15	N/E	N/E

All values Time-Weighted Averages

T = Total Particulate Matter

R = Respirable Fraction Particulate Matter

Section 3. Hazards Identification

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EMERGENCY OVERVIEW

Primary Route of Exposure: Inhalation

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POTENTIAL HEALTH EFFECTS:

EYE CONTACT :

Acute: High dust concentrations may cause mechanical eye irritation.

INHALATION :

Acute: High dust concentrations may cause upper respiratory irritation.

Chronic: May cause pneumoconiosis.

SKIN CONTACT :

Acute: Prolonged skin contact with dust may result in dryness.

INGESTION :

CHRONIC EFFECTS / CARCINOGENICITY:

There are no know medical conditions aggravated by exposure to this product.

TERATOLOGY (BIRTH DEFECT) INFORMATION :

REPRODUCTION INFORMATION :

Product: White Ceramic Filler

Section 4. First Aid Measures

INHALATION :

Move to area free from risk of further exposure. Administer oxygen or artificial respiration as needed. Obtain medical attention.

EYE CONTACT :

Flush with tepid water for at least 15 minutes while holding eyelids open. Seek medical attention if irritation develops.

SKIN CONTACT :

Wash affected areas with soap and water. Seek medical attention if irritation develops.

INGESTION :

Not a likely route of exposure. If large amounts of product are ingested, give two glasses of water and get prompt medical attention. Never give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN :

Section 5. Fire Fighting Measures

FLAMMABLE PROPERTIES:

FLASH POINT: N/A

METHOD USED :

FLAMMABLE LIMITS

LFL: N/A

UFL: N/A

EXTINGUISHING MEDIA :

Will not burn. Select media which is appropriate for fighting surrounding fire.

FIRE & EXPLOSION HAZARDS :

Not an explosion hazard.

FIRE FIGHTING INSTRUCTIONS :

Use NIOSI approved self-contained breathing apparatus with full face piece operated in pressure demand or other positive pressure mode. Wear full fire fighting protective clothing.

FIRE FIGHTING EQUIPMENT :

Section 6. Accidental Release Measures

Secure area and obtain necessary personal protective equipment. Scoop up material and place in appropriate containers for reuse or disposal. Do not allow material to enter sewer or waterways. Small amount may be cleaned up by wet mopping or vacuuming.

Section 7. Handling and Storage

Store in a cool, dry area. Any dust generated during handling or processing should be removed by wet mopping or vacuuming. Avoid breathing dusts.

Section 8. Exposure Controls / Personal Protection

ENGINEERING CONTROLS :

See Section 16.

RESPIRATORY PROTECTION :

See Section 16.

SKIN PROTECTION :

Wear any polymer gloves if prolonged exposure to powder is expected.

EYE PROTECTION :

Safety Glasses are recommended.

EXPOSURE GUIDELINE (S) :

Product: White Ceramic Filler

Section 9. Physical and chemical Properties

APPEARANCE :	White/Brown Solid	PHYSICAL STATE :	
BOILING POINT :	400 Deg F	SOLUBILITY IN WATER :	Negligible
EVAPORATION RATE :	NAIP	SPECIFIC GRAVITY :	Approx. 3.7
FREEZING POINT :		VAPOR DENSITY :	N/A
MELTING POINT :	3700 Deg F	VAPOR PRESSURE :	N/A
MOLECULAR WEIGHT :		VISCOSITY :	
ODOR :	None	% VOLATILE :	0
pH :			

Section 10. Stability and Reactivity

CHEMICAL STABILITY :

Stable

INCOMPATIBILITY :

None Known

HAZARDOUS DECOMPOSITION PRODUCTS :

may include oxides of aluminum at high temperatures.

HAZARDOUS POLYMERIZATION :

Section 11. Toxicological Information

EYE :**SKIN :****INGESTION :****INHALATION :****SUBCHRONIC :****CHRONIC / CARCINOGENICITY :****TERATOLOGY :****REPRODUCTION :****MUTAGENICITY :****SENSITIZATION :**

Section 12. Ecological Information

ECOTOXICOLOGICAL INFORMATION :**DISTRIBUTION :****CHEMICAL FATE INFORMATION :**

Product: White Ceramic Filler

Section 13. Disposal Considerations

This material, if discarded, is not defined as hazardous under 40 CFR 261. Disposal in a landfill in accordance with applicable federal, state and local laws or regulations is recommended.

Section 14. Transport Information (Not meant to be all inclusive)

D.O.T. SHIPPING NAME :
 TECHNICAL SHIPPING NAME :
 D.O.T. HAZARD CLASS :
 U.N. / N.A. NUMBER :
 PRODUCT RQ (LBS) :
 D.O.T. LABEL :
 D.O.T. PLACARD :
 FREIGHT CLASS BULK :
 FREIGHT CLASS PACKAGE :
 PRODUCT LABEL :

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA STATUS :

TSCA STATUS :

CERCLA REPORTABLE QUANTITY :

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES :
 SECTION 311/312 HAZARDOUS CATEGORIES :
 SECTION 313 TOXIC CHEMICALS :

RCRA STATUS :

CALIFORNIA PROPOSITION 65 :

Section 16. Other Information

MSDS STATUS:

ADDITIONAL SPECIAL PROTECTION INFORMATION

VENTILATION: If dust is generated, local exhaust should be provided to maintain exposure below limits. Design details for local exhaust ventilation systems may be found in the latest edition of "Industrial Ventilation: A Manual of Recommended Practices" published by ACGIH Committee on Industrial Ventilation, PO Box 16153, Lansing, MI 48910. The need for local exhaust ventilation should be evaluated by a professional industrial hygienist. Local Exhaust systems should be designed by a professional engineer.

RESPIRATORY: If airborne concentrations may exceed the exposure limits, use a NIOSI/MSHA approved respirator for dusts and mists with an exposure limit of not less than 0.05 mg/M. If exposures exceed ten (10) times the recommended limits, consult a professional industrial hygienist, or your respiratory equipment supplier, about the selection of the proper equipment. The evaluation of the need for respiratory protection should be determined by a professional industrial hygienist.

EXPOSURE GUIDELINES: All chemicals should be handled so as to prevent eye contact and excessive or repeated skin contact. Appropriate eye and skin protection should be employed, inhalation of dusts and vapors should be avoided. Proper personal protective equipment selection should follow the recommendations provided in the hazard analysis done for the task involved, or as determined by a professional hygienist.

Product: White Ceramic Filler

ADDITIONAL COMMENTS

Amorphous phase is compiled of silicon dioxide, aluminum oxide, and magnesium oxide. This product contains the following ingredients which are listed as Special Health Substances by the State of New Jersey: None

This product contains the following ingredients which are listed as hazardous Substances under the State of New Jersey Right-To-Know legislation: Aluminum Oxide.

This product contains the following ingredients which are listed as Special Hazardous Substances by the commonwealth of Pennsylvania: None

this product contains the following ingredients which are listed as Extraordinarily Hazardous Substances by the Commonwealth of Massachusetts: None

This product contains the following ingredients listed under Proposition 65 of the State of California: None

This product contains the following ingredients listed as a Cal-OSHA Workplace Airborne Contaminant: Aluminum Oxide.

This product contains the following ingredients listed on the Illinois Toxic Substances Disclosure to Employees List: Aluminum Oxide.

This product contains the following ingredients listed on the Pennsylvania Right-To-Know List of Hazardous Substances: Aluminum Oxide (regulated under a synonym)

This product contains the following ingredients regulated as a Texas Air Contaminant with Health Effects Screen Level: Aluminum Oxide. (regulated under a synonym)

Pursuant to Section 313, SARA Title III, this product contains the following reportable substances: None

OSHA Hazard communication Categories: Irritant, Eye Hazard, Lung Hazard.

SARA: Fire-No; Pressure-No; Reactive-No; Acute-Yes; Chronic-Yes.

No DOT labels are required, no DOT Hazard ID Number has been assigned, and no DOT shipping restrictions apply.

Judgments as to the suitability of the information herein for purchaser's purposes are necessarily purchaser's responsibility. Therefore, although reasonable care has been taken in the preparation of such information. Mark V Laboratory extends no warranties, makes no representations, and assumes no responsibility as to the accuracy of suitability of such information for application to purchaser's intended purposes or for consequences of its use.