

U.S. DEPARTMENT OF LABOR  
Occupational Safety and Health Administration

Form Approved  
OMB No. 44-R1387

# MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,  
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

## SECTION I

MANUFACTURER'S NAME <b>Calvert Corporation</b>		EMERGENCY TELEPHONE NO. <b>(913) 877-5221</b>
ADDRESS (Number, Street, City, State, and ZIP Code) <b>P.O. Box 97, Norton, Kansas 67654</b>		
CHEMICAL NAME AND SYNONYMS <b>Volcanic Ash, Pumicite</b>		TRADE NAME AND SYNONYMS <b>Volcanic Ash</b>
CHEMICAL FAMILY <b>Alumino-silicate</b>	FORMULA	

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS	0		BASE METAL	0	
CATALYST	0		ALLOYS	0	
VEHICLE	0		METALLIC COATINGS	0	
SOLVENTS	0		FILLER METAL PLUS COATING OR CORE FLUX	0	
ADDITIVES	0		OTHERS	0	
OTHERS	0				
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
				0	

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	None	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	2.4
VAPOR PRESSURE (mm Hg.)	None	PERCENT, VOLATILE BY VOLUME (%)	0
VAPOR DENSITY (AIR=1)	None	EVAPORATION RATE (_____ =1)	0
SOLUBILITY IN WATER	NO		
APPEARANCE AND ODOR	Gray vitreous shards, odorless		

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	No	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA	N/Applicable			
SPECIAL FIRE FIGHTING PROCEDURES				
	N/A			
UNUSUAL FIRE AND EXPLOSION HAZARDS				
	N/A			

### SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

Not Applicable

EFFECTS OF OVEREXPOSURE

Not Applicable; Volcanic ash particle structure is

amorphous and contains no free silica.

EMERGENCY AND FIRST AID PROCEDURES

Not Applicable

### SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

CONDITIONS TO AVOID

STABLE

None

INCOMPATIBILITY (Materials to avoid)

None

HAZARDOUS DECOMPOSITION PRODUCTS

None

HAZARDOUS POLYMERIZATION

MAY OCCUR

CONDITIONS TO AVOID

None

WILL NOT OCCUR

### SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Not Hazardous

WASTE DISPOSAL METHOD

Ordinary

### SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

Mineral is inert, but masks may be worn under very dusty conditions

VENTILATION

LOCAL EXHAUST

SPECIAL

Under certain conditions

MECHANICAL (General)

OTHER

PROTECTIVE GLOVES

No

No

EYE PROTECTION

No

OTHER PROTECTIVE EQUIPMENT

No

### SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Ordinary

OTHER PRECAUTIONS

None

## VOLCANIC ASH

Chemical Analysis

Silicates as SiO <sub>2</sub>	72.0%
Iron as Fe <sub>2</sub> O <sub>3</sub>	2.0%
Aluminates as Al <sub>2</sub> O <sub>3</sub>	11.5%
Calcium as CaO	1.0%
Potassium as K <sub>2</sub> O	4.7%
Sodium as Na <sub>2</sub> O	4.1%

Physical Data

Specific gravity: 2.32

Approximate melting point: 2025° F

Approximate weight per cubic foot: 38-45 lbs.

Hardness: 5.5 on Mohs scale

Color: Light bluish gray

The material is inert, the chemical ingredients being physically bound, and is non-toxic.