

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION

Trade Names and Synonyms
(SEE SECTION 12 FOR ADDITIONAL
PRODUCT IDENTIFICATION)

Avikote AV 800

Chemical Names and Family	Cementitious Mixture
Product Use	Fireproofing Product
Formula	Blend of Portland Cement, Aluminum Ore, Cellulose and Chopped Glass Filament
CAS# (Chemical Abstract Service)	Mixture-NA

SECTION 2 - HAZARD IDENTIFICATION

Emergency Overview:

Warning!

Irritating to eyes, skin and respiratory system.
Prolonged exposure may cause alkali burns resulting in damage to skin and eyes.
Prolonged exposure may cause risk of lung disease (i.e. silicosis and/or lung cancer)

HMIS Rating:

Health:	2*	
Flammability:	0	
Reactivity:	0	
Personal Protective Equipment:		(B (See Section 8))

Potential Health Effects:

Inhalation: Causes respiratory tract irritation.

Exposure may aggravate chronic respiratory conditions such as asthma or bronchitis. Long-term inhalation of dust may increase risk of contracting pneumoconiosis ("dusty lungs") and reduced pulmonary function.

Prolonged inhalation of respirable crystalline silica dust can result in lung disease (i.e. silicosis and/or lung cancer). Symptoms include coughing, shortness of breath, wheezing and reduced pulmonary function.

Eye Contact: Eye contact causes irritation.

Prolonged contact may cause burns due to the alkaline nature of cement.

Direct contact with Avikote AV 650 spray may cause physical injury.

Skin Contact: Skin contact causes irritation.

Prolonged skin contact causes burns especially if skin or product is wet. This may occur without warning since little heat is sensed.

Prolonged skin contact can result in permanent damage.

May cause sensitization due to Hexavalent chromium contained in Portland Cement.

Exposure to skin may produce "cement" dermatitis which is due to the alkaline and abrasive properties of Cement dust.

Skin Absorption: Not expected to be harmful if absorbed through the skin.

Ingestion: If ingested, causes irritation or burns to the linings of the mouth, esophagus and stomach.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Percent (max)
Bauxite	001318-16-7	25-50
Fuller's earth	008031-18-3	1-10
Chopped continuous glass filament	065997-17-3	1-10
Portland cement	065997-15-1	25-50
Pulp, cellulose	065996-61-4	1-10
Quartz	014808-60-7	<1

SECTION 4 - FIRST AID PROCEDURES

Skin Contact:	Wash with soap and water. If discomfort or irritation persists, consult a physician. Remove contaminated clothing and wash before reuse.
Eye Contact:	Flush eyes with water for at least 15 minutes while holding eyelids open. Get immediate medical attention.
Ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. If discomfort or irritation persists, consult a physician.
Inhalation:	If symptoms develop, get fresh air. If symptoms persist, consult a physician. If breathing has stopped, give artificial respiration then oxygen if needed.

SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

Flash Point:	Not Applicable
Flash Point Method:	Not Applicable
Lower Explosion Limit:	Not Available
Upper Explosion Limit:	Not Available
Auto-Ignition Temperature:	Not Available

NFPA Rating:

Health:	2
Flammability:	0
Reactivity:	0

Extinguishing Media: Not Applicable. Product will not burn.

Special Fire Fighting Procedures: None. No special procedures specific to this product.

Unusual Fire and Explosion Hazards: None unless noted below.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spills/Leaks: If spilled, prevent material from entering water systems. Observing the listed Precautionary Measures found in Section 7 of this document. Dry spills should be immediately swept up and placed in a suitable container to prevent further release of material. Slurry spills should be immediately contained (to minimize the extent of the spill) and absorbed with an inert, non-combustible material. Place material in a suitable container to prevent further release. Use proper personal protective equipment. Do not flush to sewer or allow to enter waterways

SECTION 7 - HANDLING AND STORAGE

Precautionary Measures:

- Avoid contact with eyes, skin and clothing.
- Wear skin and eye protection to avoid contact with dust or spray.
- Do not take internally.
- Practice good personal hygiene to avoid ingestion.
- Use only with adequate ventilation.
- Wash clothing before reuse.
- Equip mixers with dust covers.
- Provide respiratory protection if needed.
- Wear skin and eye protection to avoid contact with dust or spray.
- Post "Slippery When Wet" signs where appropriate.
- Use anti-slip surfaces on working platforms.
- FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:	
14808-60-7 Quartz (SiO ₂)	
PEL (USA)	see Quartz listing
REL (USA)	Long-term value: 0.05* mg/m ³ *respirable dust; See Pocket Guide App. A
TLV (USA)	Long-term value: 0.025* mg/m ³ *as respirable fraction

Additional information: The lists that were valid during the creation were used as basis.

Work/Hygienic Practices: The usual precautionary measures for handling chemicals should be followed.

Exposure controls

Minimize airborne dust generation. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. If user operations generate dust, or mist, use ventilation to keep exposure to airborne particles below the exposure limit. Apply organizational measures, eg. by isolating personnel from dusty areas. Remove and wash soiled clothing.

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Store protective clothing separately.

Breathing equipment:

Wear NIOSH-approved respiratory protection (generally a N-95 dust/mist respirator is appropriate) to prevent employee exposures from exceeding the limits specified in this section.

If Exposure Limits in Section 8.1 are exceeded, approved respiratory protection filter type P should be used.

Protection of hands:



Alkaline resistant gloves

Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Material of gloves

Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Eye protection:



Safety glasses with side shield protection.

Safety glasses with side shields should be worn to prevent contact due to splashing. Under high vapor mist concentrations, tightly sealed goggles should be worn.

Body protection:

Use personal protective equipment as required.

Take off contaminated clothing and wash before reuse.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties	
General Information	
Appearance:	
Form:	Powder
Color:	According to product specification
Odor:	Characteristic
Odour threshold:	Not determined.
pH-value (~):	Not applicable.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not determined.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
VOC Content (max):	Not determined.
Vapor pressure:	Not applicable.
Density:	(~) at 20 °C (68 °F) 21 g/cm ³ (175.245 lbs/gal)
Relative density:	Not determined.
Vapour density:	Not applicable.
Evaporation rate:	Not applicable.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Molecular weight	Not applicable
Other information	No further relevant information available.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	
Thermal decomposition:	No decomposition if used according to specifications.
Conditions to avoid	No further relevant information available.
Incompatible materials:	No further relevant information available.
Hazardous decomposition products:	
Carbon monoxide and carbon dioxide	
Cutting or welding may generate Sulfur dioxide.	
Additional information:	See section 7 for information on handling, storage and conditions to be avoided.

SECTION 11 - TOXICOLOGICAL INFORMATION

Prolonged and or massive exposure to respirable crystalline silica containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles of crystalline silica.

Information on toxicological effects

Acute toxicity:

Primary irritant effect:

on the skin: Causes skin irritation.

on the eye: Causes serious eye damage.

inhalation: May cause respiratory irritation.

Ingestion: May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

Additional toxicological information:

Cementitious grouts and mortars are known to cause both irritant and allergic contact dermatitis. Prolonged skin contact can result in chemical burns.

Prolonged exposure may cause risk of lung disease (i.e. silicosis and/or lung cancer).

Carcinogenic categories

IARC (International Agency for Research on Cancer) Human Carcinogenicity: Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable		
14808-60-7	Quartz (SiO ₂)	1
9003-53-6	Expanded Polystyrene	3

NTP (National Toxicology Program) K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic		
14808-60-7	Quartz (SiO ₂)	K

OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes: Not known to be hazardous to water.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods Comply with Federal, State and local regulations.

Recommendation:



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations

SECTION 14 - TRANSPORT INFORMATION

UN-Number DOT, ADR, ADN, IMDG, IATA	Not applicable
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Not applicable
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class	Not applicable
Packing group DOT, ADR, IMDG, IATA	Not applicable
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Transport/Additional information: DOT	Not classified as a dangerous good for transport by road, rail or air.
Remarks:	Not Regulated.
Note:	Not Regulated for Canada TDG
UN "Model Regulation":	-

SECTION 15 - REGULATORY INFORMATION

SARA (Superfund Amendments and Reauthorization Act)

Section 302/304 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):

None of the ingredients is listed.

SARA Section 312/Tier I & II Hazard Categories:

Health Delayed (chronic)	Yes
Health Immediate (acute)	Yes
Flammable	No
Reactive	No
Pressure	No

North America Chemical Inventory Status

TSCA (Toxic Substances Control Act - United States):

All ingredients are listed or exempt from listing unless otherwise noted below.

CEPA (Canadian DSL):

All ingredients are listed or exempt from listing unless otherwise noted below.

Right to Know Ingredient Disclosure

65996-61-4	Cellulosic Fiber
9003-53-6	Expanded Polystyrene

Carcinogenicity Categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)

Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable

Quartz (SiO ₂)	A2
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NIOSH-Cancer (National Institute for Occupational Safety and Health)

14808-60-7	Quartz (SiO ₂)
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Volatile Organic Compounds (VOC) reported per the Emission Standards. 0 g/L

SECTION 16 -OTHER INFORMATION

"THE DATA INCLUDED HEREIN ARE PRESENTED ACCORDING ARABIAN VERMICULITE INDUSTRIES, SAUDI ARABIA'S CURRENT AT THE TIME OR PREPARATION HEREOF, ARE MADE AVAILABLE SOLELY FOR THE CONSIDERATION, INVESTIGATION AND VERIFICATION OF THE ORIGINAL RECIPIENTS HEREOF AND DO NOT CONSTITUTE A REPRESENTATION OR WARRANTY FOR WHICH AVI ASSUMES LEGAL RESPONSIBILITY. IT IS THE RESPONSIBILITY OF A RECIPIENT OF THIS DATA TO REMAIN CURRENTLY INFORMED ON CHEMICAL HAZARD INFORMATION, TO DESIGN AND UPDATE ITS OWN PROGRAM AND TO COMPLY WITH ALL NATIONAL, FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS APPLICABLE TO SAFETY, OCCUPATIONAL HEALTH, RIGHT-TO-KNOW AND ENVIRONMENTAL PROTECTION".

Other Information:

There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis. Therefore preventing the onset of silicosis will also reduce the cancer risk.

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