

Material Safety Data Sheet

Printing Date: 01/10/2017

Version Number 1.0

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Section 1 – Identification of the Product and of the Manufacturer

Product identifier

Trade name: **MONOKOTE MK-6/HY**

MSDS ID number: FG-0025

Relevant identified uses of the substance or mixture and uses advised against:
Specialty construction product. Not intended for other uses.

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Arabian Vermiculite Industries
P.O. Box 7137
First Industrial City,
Dammam 31462, Kingdom of Saudi Arabia

Information department:

Technical & Specifications Department
Tel.: +966 (13) 847 1450
Email address: info@avi-sa.com

Emergency Telephone Number: +966 (13) 847 1450

Section 2 – Hazards Identification

Classification of the substance or mixture:

Depending on the type of handling and use, airborne respirable crystalline silica may be generated. Prolonged and/or massive inhalation of respirable silica dust may cause silicosis. Occupational exposure to respirable crystalline silica should be monitored and controlled.

This product should be handled with care to avoid dust generation.
May cause cancer. Route of exposure: Inhalation.

Label elements:

Hazard pictograms



GHS08

Signal Word:

Danger

Precautionary statements:

Do not handle until all safety precautions have been read and understood.
Avoid breathing dust.
Wash thoroughly after handling.
In case of inadequate ventilation wear respiratory protection.
Dispose of contents container in accordance with all applicable regulations.
Wash contaminated clothing before reuse.

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If inhaled, get medical advice/attention if you feel unwell

NFPA ratings (scale 0 – 4)



Health = 1
Fire = 0
Reactivity = 0

HMIS ratings (scale 0 -4)



Health = *1
Flammability = 0
Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Section 3 – Composition/Information on Ingredients

Chemical characterization: Mixture

Description: Mixture of the hazardous substance(s) listed below with additional non-hazardous ingredients.

CAS No.	Substance Name	Percentage
7778-18-9	Calcium sulfate, natural	50 - 90%
14808-60-7	Quartz (SiO ₂)	2.0 – 5.0%
1317-65-3	Calcium Carbonate	1.0 – 10.0%

Section 4 – First-aid Measures

Description of first-aid measures

General information: Get medical advice/attention if you feel unwell.

After inhalation: If breathing has stopped, give artificial respiration then oxygen if needed.

After skin contact:

Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

If skin irritation occurs, consult a doctor.

After eye contact:

Rinse cautiously with water for several minutes.

If eye irritation occurs, consult a doctor.

After swallowing:

Rinse mouth.

Do NOT induce vomiting.

Information for doctor:

Most important symptoms and effects, both acute and delayed: No further relevant information available.

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

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Section 5 – Firefighting Measures

Special hazards arising from the substance or mixture: No further relevant information available.

Additional information: No further relevant information available

Section 6 – Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Avoid formation of dust.

Methods and material for containment and cleaning up

Sweep up spilled product into receptacles.

Avoid formation of dust.

Vacuuming or wet sweeping may be used to avoid dust dispersal.

Dispose contaminated material as waste according to section 13 of the SDS.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7 – Handling and Storage

Handling:

Precautions for safe handling

Do not breathe dust.

Fit dust covers to mixers.

Prior to welding or cutting, Monokote must be removed from steel surfaces likely to be exposed to excessive heating.

Avoid contact with skin.

Avoid contact with eyes.

Conditions for safe storage, including any incompatibilities

Storage: Store in cool, dry conditions in well-sealed original receptacles.

Further information about storage conditions: No further relevant information available.

Specified end use(s): No further relevant information available.

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:	
1317-65-3 Calcium carbonate	
TWA (USA)	Short-term value: 10 mg/m ³ , mg/m ³ ppm Long-term value: 10 mg/m ³ , mg/m ³ ppm (Particulate matter no asbestos)
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

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Additional Occupational Exposure Limit Values for possible hazards during processing:

In addition to the exposure limits referenced above, the following non-specific limits for dust apply to this product; OSHA, 15 mg/m³-TWA for Total Dust and 5 mg/m³-TWA as Respirable Dust, ACGIH, 10 mg/m³-TWA as Total Dust and 3 mg/m³-TWA as Respirable Dust.

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:

Store protective clothing separately.

The usual precautionary measures for handling chemicals should be followed.

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.

Protection of hands:

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:	Grey
Odor:	Earthy
Odor 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 self-igniting.
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: (~)	Not determined.

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Relative density:	Not determined.
Vapor 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:

LD/LC50 values relevant for classification:

1317-65-3 Calcium carbonate

Oral	LD50	6450 mg/kg (rat)
	LC50, 96h	10.000 mg/l (fish)

Primary irritant effect:

on the skin: No irritating effect expected

on the eye: No irritating effect expected

inhalation: No irritating effect expected

Additional toxicological information:

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

Oral	LD50	6450 mg/kg (rat)
	LC50, 96h	10.000 mg/l (fish)

Section 12 – Ecological Information

Toxicity

Aquatic toxicity:

1317-65-3 Calcium carbonate

EC50, 48h	1.000 mg/l (daphnia magna)
EC50, 72h	10.000 mg/l (algae)

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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, IMDG, IATA	Not applicable.
UN proper shipping name DOT, IMDG, IATA	Not applicable.
Transport hazard class(es) DOT, IMDG, IATA Class	Not applicable.
Packing group DOT, IMDG, IATA	Not applicable.
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Transport/Additional information: DOT Remarks: Note:	Not regulated. Not regulated for Canada TDG.
UN “Model Regulation”:	Not applicable.

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

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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

California Proposition 65

Chemicals known to cause cancer:

Quartz (SiO₂)

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

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 (SiO₂)

A2

NIOSH-Cancer (National Institute for Occupational Safety and Health)

14808-60-7 Quartz (SiO₂)

Volatile Organic Compounds (VOC) reported per the Emission Standards. 0 g/L

Section 16 – Other Information

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the 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.

Monokote products are manufactured under exclusive license with Grace Construction and Packaging Applied Technology, U.S.A.

Department issuing MSDS:

Arabian Vermiculite Industries

P.O. Box 7137,

First Industrial City,

Dammam 31462, Kingdom of Saudi Arabia

KSA: +966 (13) 847 1450

Other information: N/A

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