

Material Safety Data Sheet

Printing date 07/12/2012

Version Number 1.3

Reviewed on 07/12/2012

* **1 Identification of the substance/mixture and of the company/undertaking****Product identifier**Trade name: Monokote MK-10 HB

MSDS ID Number: Z-01821

Details of the supplier of the safety data sheet**Manufacturer/Supplier:**

W.R. Grace & Co. -Conn.
62 Whittemore Avenue
Cambridge, MA 02140 USA

Grace Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

Other Country Contact Information:

For products distributed beyond the country Manufacturer/Supplier identified above
Consult Section 16 for additional emergency contact information.

Information department:

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts
In Canada: +1-905-683-8561

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)* **2 Composition/information on ingredients****Chemical characterization: Mixtures****Description:** Mixture of the substances listed below with nonhazardous additions.**Hazardous components:**

7778-18-9	Calcium sulfate, natural	50-100%
1317-65-3	Calcium carbonate	2.0-5.0%
14808-60-7	Quartz (SiO ₂)	1.0-2.0%

* **3 Hazards identification****Classification of the substance or mixture**

This product contains less than 5 % quartz which is part of a natural material.
Prolonged exposure may cause risk of lung disease (i.e. silicosis and/or lung cancer).

Information concerning hazards for human and environment:

Harmful by inhalation.
Irritating to eyes, respiratory system and skin.

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Safety phrases:

Keep container in a well-ventilated place.
 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 Wear suitable protective clothing and gloves.
 See Section 13 for disposal information.

Hazard description:

Caution!

Harmful

Inhalation:

Causes respiratory tract irritation.

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

Eye Contact: Causes eye irritation.**Skin Contact:**

Irritant to skin and mucous membranes.

Product may develop heat upon hardening causing injury.

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**NFPA ratings (scale 0 - 4)**

Health = 1

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = *1

Flammability = 0

Reactivity = 0

4 First aid measures**General information:**

No special measures required.

After inhalation:

Supply fresh air and to be sure call for a doctor.
 In case of unconsciousness place patient stably in side position for transportation.

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 continues, consult a doctor.

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

After eye contact:

Rinse opened eye for several minutes under running water.

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Seek immediate medical advice.

After swallowing: Do not induce vomiting; immediately call for medical help.

* 5 Firefighting measures

Suitable extinguishing agents:

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

Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

* 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 MSDS.

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.

* 7 Handling and storage

Handling:

Precautions for safe handling

Open and handle receptacle with care.

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

Fit dust covers to mixers.

Do not breathe dust.

Danger of wet slippery surfaces.

Information about protection against explosions and fires:

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Storage:**Information about storage in one common storage facility:** No special measures required.**Further information about storage conditions:** Keep receptacle tightly sealed.**Specific end use(s)** No further relevant information available.**8 Exposure controls/personal protection****Additional information about design of technical systems:** No further data; see item 7.**Components with limit values that require monitoring at the workplace:****7778-18-9 Calcium sulfate, natural**

PEL	15* 5** mg/m ³ *total dust **respirable fraction
REL	10* 5** mg/m ³ *total dust **respirable fraction
TLV	10* mg/m ³ *as inhalable fraction

1317-65-3 Calcium carbonate

TWA	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)
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14808-60-7 Quartz (SiO₂)

PEL	see Quartz listing
REL	0.05* mg/m ³ *respirable dust; See Pocket Guide App. A
TLV	0.025* mg/m ³ *as respirable fraction

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.**Personal protective equipment:****General protective and hygienic measures:**

Avoid contact with the eyes and skin.

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.

In case of brief exposure or low pollution use respiratory filter device.

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Protection of hands:

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: Protective work clothing**9 Physical and chemical properties****General Information****Appearance:**

Form:	Powder
Color:	According to product specification
Odor:	Odorless
Odour threshold:	Not determined.

pH-value: Not applicable.**Change in condition**

Melting point/Melting 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):** 1 g/cm³ (8.345 lbs/gal)**Vapour density:** Not applicable.**Evaporation rate:** Not applicable.**Solubility in / Miscibility with****Water:** Insoluble.**Segregation coefficient (n-octanol/water):** Not determined.**Viscosity:****Dynamic:** Not applicable.

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Kinematic: Not applicable.

Other information No further relevant information available.

* **10 Stability and reactivity****Thermal decomposition:** No decomposition if used according to specifications.**Incompatible materials:** No further relevant information available.**Hazardous decomposition products:**Carbon monoxide and carbon dioxide
Hydrocarbons**Additional information:** See section 7 for information on handling, storage and conditions to be avoided.* **11 Toxicological information****Acute toxicity:****Primary irritant effect:****on the skin:** Irritating to skin.**on the eye:** Irritating to eyes.**inhalation:** Irritating to respiratory system.**Additional toxicological information:**

May cause respiratory irritation.

Exposure to high dust concentrations over a long period may produce silicosis and other lung disease.

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

* **12 Ecological information****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.**Additional ecological information:****General notes:** Slightly hazardous for water

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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.**14 Transport information****UN-Number**

DOT, ADR, IMDG, IATA

Not applicable.

UN proper shipping name

DOT, ADR, 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 in bulk according to Annex II of**MARPOL73/78 and the IBC Code**

Not applicable.

Transport/Additional information:**DOT****Remarks:**

Not Regulated.

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.

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SARA Section 312/Tier I & II Hazard Categories:

Health Immediate (acute)	Yes
Health Delayed (chronic)	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.

California Proposition 65**Chemicals known to cause cancer:**14808-60-7 | 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.

WHMIS Classification(s):

D2B - Toxic material causing other toxic effects

**Carcinogenicity Categories****EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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 (SiO₂)

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NTP (National Toxicology Program)**K-Known to be carcinogenic, R-May reasonably be anticipated to be carcinogenic**14808-60-7 | Quartz (SiO₂)

K

TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)**Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable**14808-60-7 | Quartz (SiO₂)

A2

NIOSH-Cancer (National Institute for Occupational Safety and Health)14808-60-7 | Quartz (SiO₂)**OSHA-Cancer (Occupational Safety & Health Administration)**

None of the ingredients is listed.

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Volatile Organic Compounds (VOC) reported per the Emission Standards for Architectural Coatings:

If no g/L value is provided this product is not subject to above standard.

European EINECS

Inventory listing could not be confirmed for one or more substances.

Philippines Inventory of Chemicals and Chemical Substances PICCS

Inventory listing could not be confirmed for one or more substances.

Inventory of Existing Chemical Substances manufactured or imported in China IECSC

Inventory listing could not be confirmed for one or more substances.

Australian Inventory of Chemical Substances AICS

Inventory listing could not be confirmed for one or more substances.

Japan Existing and New Chemical Substance List ENCS

Inventory listing could not be confirmed for one or more substances.

Korean Existing Chemical Inventory

Inventory listing could not be confirmed for one or more substances.

Non-hazardous Ingredients

65996-61-4	Cellulosic Fiber	5.0-10.0%
9003-53-6	Expanded Polystyrene	2.0-5.0%

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."

USA