

1 Identification of substance

Product details

Trade name: Monokote® Z-106 HY

MSDS ID Number: Z-01840

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

Information department:

Environmental Health & Safety

USA: +1-617-876-1400 (24 hours)

+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts CAN: 1-905-683-8561 (24 hours)

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

2 Composition/Data on components

Chemical characterization

Description: Mixture of the substances listed below with nonhazardous additions.

Hazardous components:		
65997-15-1	Portland cement	50-100%
14808-60-7	Quartz (SiO ₂)	1.0-2.0%
7778-18-9	Calcium sulfate, natural	10-20%

3 Hazards identification

Hazard description:

Caution!

Irritant

Information pertaining to particular dangers for man and environment:

This product contains less than 5 % quartz which is part of a natural material.

Quartz is classified by IARC (International Agency for Research on Cancer) as carcinogenic to humans by inhalation (Group I).

Irritating to skin.

Risk of serious damage to eyes.

Contains chromium (VI). May cause allergic reactions.

Inhalation:

Causes respiratory tract irritation.

Quartz can cause silicosis, lung cancer and other lung diseases on prolonged exposure.

Eye Contact: Causes serious eye damage.

Skin Contact:

Irritant to skin and mucous membranes.

Product may develop heat upon hardening causing injury.

Material Safety Data Sheet

Printing date 3/26/2014

Reviewed on 3/26/2014

Trade name: **Monokote® Z-106 HY****NFPA ratings (scale 0 - 4)**

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Health = 2
 Fire = 0
 Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = *2
 Flammability = 0
 Reactivity = 0

4 First aid measures**After inhalation:**

Take affected persons into fresh air and keep quiet.

Seek immediate medical advice.

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 continues, consult a doctor.

Seek immediate medical advice.

After eye contact:

Rinse opened eye for several minutes under running water.

Seek immediate medical advice.

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

5 Fire fighting measures

Suitable extinguishing agents: The product will not burn.

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

6 Accidental release measures**Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

Avoid formation of dust.

Measures for environmental protection:

Inform respective authorities in case of seepage into water course or sewage system.

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Measures for cleaning/collecting:

Contain and/or absorb spill with inert material (i.e. sand, vermiculite) then place in a suitable container.

Sweep up spilled product into receptacles.

Avoid formation of dust.

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

Protective work clothing

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

7 Handling and storage**Handling:**

Information for safe handling: Open and handle receptacle with care.

Storage:

Information about storage in one common storage facility: No special measures required.

Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls and 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:**65997-15-1 Portland cement**

PEL	50 mppcf or 15* 5** mg/m ³ *total dust **respirable fraction
REL	10* 5** mg/m ³ *total dust **respirable fraction
TLV	(10) NIC-1* mg/m ³ (E); NIC-A4; *as respirable fraction

14808-60-7 Quartz (SiO₂)

PEL	see Quartz listing
REL	0.05* mg/m ³ *respirable dust
TLV	0.025* mg/m ³ *as respirable fraction

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

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

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Work/Hygienic Practices:

The usual precautionary measures for handling chemicals should be followed.
Avoid formation of dust.

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.

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 impermeable and resistant to the product. Selection of material should be considered before use.

Eye protection:

Safety glasses with side shields.



Safety glasses with side shield protection.



A face shield should also be worn if there is potential exposure to splash or spray.

Body protection: Protective work clothing

9 Physical and chemical properties**General Information**

Form:	Liquid
Color:	According to product specification
Odor:	Characteristic

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	2230°C (4046°F)

Flash point: Not applicable.

Auto igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Density at 20°C (68°F): ~21 Lbs/Ft3

Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

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pH-value at 20°C (68°F): ~13**10 Stability and reactivity****Thermal decomposition:** No decomposition if used according to specifications.**Dangerous products of decomposition:**

Carbon monoxide and carbon dioxide, Hydrocarbons.

Cutting or welding may generate Sulfur dioxide.

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:** May be irritating to the skin on prolonged contact**on the eye:** May be irritating to the eyes.**12 Ecological information****Additional ecological information:****General notes:**

Slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

13 Disposal considerations**Product:** Comply with Federal, State and local regulations.**Uncleaned packagings:****Recommendation:** Disposal must be made according to official regulations.USA
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14 Transport information

DOT regulations:

Hazard class: -

Land Transport ADR/RID (cross-border):

ADR/RID class: -

Inland shipping ADN:

ADN/R Class: -

Maritime Transport IMDG:

IMDG Class: -

Marine pollutant: No

Air Transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: -

15 Regulations

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 Hazardard Catagories:

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

National Chemical Inventory Status

TSCA (Toxic Substances Control Act - United States):

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

Remarks:

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.

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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):

D2A - Very 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)14808-60-7 | Quartz (SiO₂)**NTP (National Toxicology Program)**14808-60-7 | Quartz (SiO₂)

K

TLV-ACGIH (Threshold Limit Value for Carcinogens established by ACGIH)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.

National Volatile Organic Emission Standards for Architectural Coatings:

Grams/Liter =0%

Volatile Organic Content:

European EINECS

All ingredients are listed.

Philippines Inventory of Chemicals and Chemical Substances PICCS

All ingredients are listed.

Inventory of Existing Chemical Substances manufactured or imported in China IECSC

All ingredients are listed.

Australian Inventory of Chemical Substances AICS

All ingredients are listed.

Existing and New Chemical Substance List ENCS

All ingredients are listed.

Korean Existing Chemical Inventory

All ingredients are listed.

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Trade name: *Monokote® Z-106 HY*

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Product related hazard information:

Hazard symbols:

Irritant

Risk phrases:

Irritating to skin.

Risk of serious damage to eyes.

Safety phrases:

Do not breathe gas/fumes/vapor/spray.

Avoid contact with skin.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable gloves and eye/face protection.

This material and its container must be disposed of as hazardous waste.

Special labeling of certain preparations:

Contains chromium (VI). May cause allergic reactions.

Non-hazardous Ingredients

65996-61-4	Cellulosic Fiber	5.0-10.0%
8031-18-3	Clay 2	2.0-5.0%
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."