

## Safety Data Sheet

Printing date 05/25/2023

Version Number 1.0

Reviewed on 05/25/2023

**1 Identification****Product identifier**Trade name: Monokote Z-146T

SDS ID Number: 2693

**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:**GCP Applied Technologies  
2325 Lakeview Pkwy  
Alpharetta GA 30009 USAGCP 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)  
Email address: msds.gcp@gcpat.com**Transport Emergency:** Chemtrec +1-800-424-9300 (24 hours)**2 Hazard(s) identification****Classification of the substance or mixture**Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
May cause cancer.  
May cause respiratory irritation.**Label elements:** The product is classified and labeled according to the Globally Harmonized System (GHS)**Hazard pictograms**

Danger

**Hazard statements**Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
May cause cancer.  
May cause respiratory irritation.**Precautionary statements**Do not handle until all safety precautions have been read and understood.  
Do not breathe dust.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If swallowed: Rinse mouth. Do NOT induce vomiting.

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If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 IF exposed or concerned: Get medical advice/attention.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional information:** Avoid breathing dust.

**Hazard description:**

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



Health = 3  
 Fire = 0  
 Reactivity = 0

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



Health = \*3  
 Flammability = 0  
 Reactivity = 0

**Other hazards****Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**3 Composition/information on ingredients****Chemical characterization: Mixture**

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

**Hazardous components:**

65997-15-1	Portland cement	30-<40%
14808-60-7	Quartz (SiO <sub>2</sub> )	1-<3%
13780-06-8	Calcium nitrite	0.1-<1%

**Additional information:** Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.

**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.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**After skin contact:**

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.

Seek immediate medical advice.

**After eye contact:**

Rinse cautiously with water for several minutes.

Seek immediate medical advice.

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**After swallowing:**

Rinse mouth.

Do NOT induce vomiting.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

**Information for doctor:****Most important symptoms and effects, both acute and delayed** Allergic reactions**Indication of any immediate medical attention and special treatment needed** No further relevant information available.**5 Fire-fighting measures****Extinguishing media****Suitable extinguishing agents:** The product will not burn.**Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

**Advice for firefighters****Protective equipment:** Wear personal protective equipment.**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.

**Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.**Methods and material for containment and cleaning up:**

Avoid formation of dust.

Protective work clothing

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

**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**

Prevent formation of 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.

Danger of wet slippery surfaces.

**Information about protection against explosions and fires:** No special measures required.

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**Conditions for safe storage, including any incompatibilities****Storage:****Information about storage in one common storage facility:** Keep respirator available.**Further information about storage conditions:** Store in cool, dry conditions in well sealed original receptacles.**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.**Control parameters****Components with limit values that require monitoring at the workplace:****65997-15-1 Portland cement**

EL (Canada)	Long-term value: 1 mg/m <sup>3</sup> respirable
EV (Canada)	Long-term value: 10(D) mg/m <sup>3</sup> total dust
PEL (USA)	Long-term value: 50 mppcf or 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV (USA)	Long-term value: 1* mg/m <sup>3</sup> E; *as respirable fraction, A4

**14808-60-7 Quartz (SiO<sub>2</sub>)**

EL (Canada)	Long-term value: 0.025 mg/m <sup>3</sup> ACGIH A2; IARC 1
EV (Canada)	Long-term value: 0.10* mg/m <sup>3</sup> *respirable fraction
PEL (USA)	Long-term value: 0.05* mg/m <sup>3</sup> *resp. dust; 30mg/m <sup>3</sup> /0%SiO <sub>2</sub> +2
REL (USA)	Long-term value: 0.05* mg/m <sup>3</sup> *respirable dust
TLV (USA)	Long-term value: 0.025* mg/m <sup>3</sup> *respirable particulate matter, A2

**Additional information:**

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

Canadian employers must consult the exposure limits in their province.

**Work/Hygienic Practices:** The usual precautionary measures for handling chemicals should be followed.**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

The usual precautionary measures for handling chemicals should be followed.

**Breathing equipment:**

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

**Protection of hands:** Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

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**Material of gloves**

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

Nitrile rubber.

Rubber or other impervious gloves should be worn to prevent skin contact.

**Eye protection:**

Safety glasses with side shield protection.

Tightly sealed goggles

**Body protection:**

Use personal protective equipment as required.

Take off contaminated clothing.

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

**General Information****Appearance:**

<b>Form:</b>	Powder
<b>Color:</b>	According to product specification
<b>Odor:</b>	Characteristic
<b>Odor threshold:</b>	Not determined.

**pH-value (~):** Not applicable.

**Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.
<b>Flash point:</b>	Not applicable.

**Flammability (solid, gaseous):** Not determined.

**Ignition temperature:** Undetermined.

**Decomposition temperature:** Not determined.

**Auto igniting:** Not determined.

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

**Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

**Vapor pressure:** Not applicable.

**Density: (~) at 20 °C (68 °F)** 21 g/cm<sup>3</sup> (175.2 lbs/gal)

**Vapor density** Not determined.

**Solubility in / Miscibility with**

**Water:** Insoluble.

**Partition coefficient (n-octanol/water):** Not determined.

**Viscosity:**

**Dynamic:** Not applicable.

**Kinematic:** Not applicable.

**Molecular weight** Not determined.

**Other information**

No further relevant information available.

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**10 Stability and reactivity****Reactivity**

Stable under normal conditions.  
No further relevant information available.

**Chemical stability**

**Thermal decomposition:** No decomposition if used according to specifications.

**Possibility of hazardous reactions**

No dangerous reactions known.  
No further relevant information available.

**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.

**11 Toxicological information****Information on toxicological effects****Acute toxicity:****LD/LC50 values relevant for classification:**

13780-06-8 Calcium nitrite

Oral | LD50 | 283 mg/kg (rat)

**Primary irritant effect:**

**on the skin:** Causes severe skin burns and eye damage.

**on the eye:** Causes serious eye damage.

**inhalation:** May cause respiratory irritation.

**Sensitization:** May cause an allergic skin reaction.

**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**

14808-60-7 | Quartz (SiO<sub>2</sub>)

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<sub>2</sub>)

K

**OSHA–Ca (Occupational Safety & Health Administration)**

None of the ingredients are listed.

**12 Ecological information****Toxicity**

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability** No further relevant information available.

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**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:** Must not reach bodies of water or drainage ditch undiluted or unneutralized.**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**13 Disposal considerations****Disposal methods:**

Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing product for disposal. Dispose of waste in accordance with all applicable regulations.

**Recommendation:**

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

**Uncleaned packagings:****Recommendation:** Dispose of contents/container in accordance with local/regional/national/international regulations.**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:**

Not applicable.

**Special precautions for user**

Not applicable.

**Transport/Additional information:** Not classified as a dangerous good for transport by road, rail or air.**DOT****Remarks:**

Not Regulated.

**Note:**

Not Regulated for Canada TDG.

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**15 Regulatory information****Other regulations in domestic and foreign countries****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 Hazard - Carcinogenicity

Health Hazard - Skin Corrosion or Irritation

Health Hazard - Respiratory or Skin Sensitization

Health Hazard - Specific target organ toxicity (single or repeated exposure)

**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:**

1318-16-7 Aluminium ore

8031-18-3 Clay

65996-61-4 Cellulosic Fiber

**California Proposition 65: (Substances <0.1% unless noted in Section 3)****Chemicals known to cause cancer:**Quartz (SiO<sub>2</sub>)**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

**Carcinogenicity Categories****TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)****Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable**

Aluminium ore

A4

Quartz (SiO<sub>2</sub>)

A2

**NIOSH-Cancer (National Institute for Occupational Safety and Health)**14808-60-7 Quartz (SiO<sub>2</sub>)**Volatile Organic Compounds (VOC) reported per the Emission Standards. 0 g/L****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.

**Department issuing SDS:**

GCP Applied Technologies

2325 Lakeview Pkwy

Alpharetta GA, 30009 USA

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

+1-800-354-5414

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**Contact:**

**The first date of preparation** 05/14/2023

**Number of revision times and the latest revision date** 1.0 / 05/25/2023

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