

## Safety Data Sheet according to WHS Regulations

Printing Date: 18.12.2024

Version Number: 1.0

Revision Date: 18.12.2024

### 1 Identification

**Product identifier:**

Trade name: **MONOKOTE Z-146T**

**Relevant identified uses of the substance or mixture, and uses advised against:** No further relevant information available.

**Relevant identified uses of the substance or mixture:** Fireproofing.

**Identified uses advised against:** No further relevant information available.

**Details of the supplier of the safety data sheet:**

**Manufacturer/supplier:**

GCP Korea Inc.  
70B-1L, 301, Cheongneung-daero  
Namdong-gu, Incheon, Korea  
21633

Tel: (82-32) 820-0800

Fax: (82-32) 820-0801

**Supplier:**

GCP Australia Pty. Ltd.  
14 Colebard Street West  
Archerfield, Queensland 4108  
Australia

Tel: 1800 334 444

Fax: +61 7-3275-7801

**Further information obtainable from:** APMSDS@gcpat.com

**Emergency telephone number:** After hours - Tel. No. 1800 039 008

### 2 Hazard(s) Identification

**Classification of the substance or mixture:**

Skin corrosion/irritation – Category 2

H315 Causes skin irritation.

Eye damage/irritation – Category 1

H318 Causes serious eye damage.

Specific target organ toxicity (single exposure) – Category 3

H335 May cause respiratory irritation.

**Label elements:**

**GHS label elements** The product is classified and labelled according to the Globally Harmonized System (GHS).

**Hazard pictograms**



GHS05

GHS07

**Signal word** Danger

**Hazard-determining components of labelling:**

Portland cement

**Hazard statements**

Causes skin irritation.

Causes serious eye damage.

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May cause respiratory irritation.

**Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves / eye protection / face protection.

IF ON SKIN: Wash with plenty of water.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional information:**

Avoid breathing dust

This product should be handled with care to avoid dust generation.

**Information concerning particular hazards for human and environment:****Description of Classification:** Classified as hazardous according to the criteria of Safe Work Australia.**Other hazards:****Results of PBT and vPvB assessment:****PBT:** Not applicable.**vPvB:** Not applicable.

### 3 Composition and Information on Ingredients

**Chemical characterization: Mixture:****Description:** Mixture of substances listed below with non-hazardous additions.**Dangerous components:**

65997-15-1	Portland cement	30-<50%
	Eye damage/irritation – Category 1, H318 Skin corrosion/irritation – Category 2, H315; Specific target organ toxicity (single exposure) – Category 3, H335	
13780-06-8	Calcium nitrite	0.1-<1%
	Acute toxicity - oral – Category 3, H301 Eye damage/irritation – Category 2A, H319	

**Additional information:**

Ingredients determined not to be hazardous are present in concentrations that do not exceed the relevant cut-off concentrations as found from NOHSC publication 'List of Designated Hazardous Substances' or have been found NOT to meet the criteria of a hazardous substance as defined in the NOHSC publication 'Approved Criteria for Classifying Hazardous Substances'.

### 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 victim to fresh air and keep at rest in a position comfortable for breathing.

**After skin contact:**

If skin irritation continues, consult a doctor.

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

Wet cement may cause skin irritation or burns.

Take off immediately all contaminated clothing, and wash immediately with plenty of soap and water.

IF exposed or concerned: Get medical advice/attention.

Seek immediate medical advice.

**After eye contact:**

Seek immediate medical advice.

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.

**After swallowing:** Rinse out mouth and then drink plenty of water.

**Information for doctor:**

**Most important symptoms and effects, both acute and delayed:** Risk of serious damage to eyes.

**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.

CO<sub>2</sub>, powder.

**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.

**Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.

**Methods and material for containment and cleaning up:**

Sweep up spilled product into receptacles.

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.

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## 7 Handling and Storage

### HANDLING

#### Precautions for safe handling:

Risk of serious damage to eyes.

Avoid contact with skin.

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.

Danger of wet slippery surfaces.

**Information about fire - and explosion protection:** No special measures required.

#### Conditions for safe storage, including any incompatibilities:

### 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.

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

## 8 Exposure controls and personal protection

**Additional information about design of technical facilities:** No further data; see section 7.

### Control parameters:

#### Ingredients with limit values that require monitoring at the workplace:

##### 65997-15-1 Portland cement

WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable 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

**Additional information:** Based on the lists valid at the date of SDS creation.

### Exposure controls:

Minimise 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 organisational 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 are to be adhered to when handling chemicals.

The usual precautionary measures for handling chemicals should be followed.

#### Respiratory protection:

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.).

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P2 dust masks for nuisance dust protection, compliant with AS 1716:2021

**Protection of hands:**

Nitrile gloves (disposable or reusable), compliant with AS/NZS 2161.10:2005 / EN374-1:2016/Type A or Type B

**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 shield protection.

Hermetically sealed safety goggles

**Body protection:** Use personal protective equipment as required.

## 9 Physical and Chemical Properties

### Information on basic physical and chemical properties:

**GENERAL INFORMATION****Appearance:**

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

**pH-value (~):** Not applicable.**Change in conditions:-**

<b>Melting point/freezing point:</b>	Undetermined.
<b>Initial boiling point and boiling range:</b>	Not determined.
<b>Flash point:</b>	Not applicable.

**Flammability (solid, gas):** Not determined.**Auto-ignition temperature:** Not determined.

<b>Decomposition temperature:</b>	Not determined.
<b>Ignition temperature:</b>	Not determined.
<b>Explosive properties:</b>	Product does not present an explosion hazard.
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

**Vapour pressure:** Not applicable.**Density:** Not determined.**Vapour density:** Not determined.**Solubility in/Miscibility with:-****Water:** Insoluble.**Partition coefficient: n-octanol/water:** Not determined.**VISCOSITY**

<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
<b>Molecular weight</b>	Not determined.

**Other information:** No further relevant information available.AU  
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## 10 Stability and Reactivity

### Reactivity:

Stable under normal conditions.

No further relevant information available.

### Chemical stability:

**Thermal decomposition / conditions to be avoided:** 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

**Skin corrosion/irritation** Causes skin irritation.**Serious eye damage/irritation** Causes serious eye damage.**Inhalation:** May cause respiratory irritation.

#### Additional toxicological information:

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

## 12 Ecological Information

### Toxicity:

**AQUATIC TOXICITY** No further relevant information available.**Persistence and degradability:** No further relevant information available.

### BEHAVIOUR 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 sewage water or drainage ditch undiluted or unneutralised.

### Results of PBT and vPvB assessment:

**PBT:** Not applicable.

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vPvB: Not applicable.

## 13 Disposal considerations

### Waste treatment methods:

#### Recommendation:



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

Refer to State Land Waste Authority for disposal considerations.

### UNCLEANED PACKAGING

**Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

<b>UN-Number</b> ADR, IMDG, IATA	Not Regulated
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<b>UN proper shipping name</b> ADR, IMDG, IATA	Not Regulated
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<b>Transport hazard class(es)</b> ADR, ADN, IMDG, IATA Class	Not Regulated
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<b>Packing group</b> ADR, IMDG, IATA	Not Regulated
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<b>Environmental hazards:</b>	Not applicable.
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<b>Special precautions for user:</b>	Not applicable.
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<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b>	Not Regulated
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## 15 Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture:

See Section 2 for hazard identification.

#### Australia: Priority Existing Chemicals

None of the ingredients is listed.

#### National regulations:

**Other regulations, limitations and prohibitive regulations:** All ingredients are listed on AICS.

**Registered in the international inventory lists:** AICS (Australia)

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases:**

H301 Toxic if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

**Department issuing SDS:**

EHS Department,

Asia Pacific Region

GCP Applied Technologies Operations Center, Inc.,

CTP Asean Tower, Upper Penthouse, Unit 1,

2397 Asean Drive, Spectrum District, Filinvest Alabang, 1781,

Muntinlupa City, Philippines

Tel: + 63 2 8271 2300

**The first date of preparation:** 20.10.2022**Number of revision times and the latest revision date:** 1.0 / 18.12.2024**Sources:** Raw material suppliers' safety data sheets were used as key data sources in the preparation of this safety data sheet.

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