

# SAFETY DATA SHEET



Product name: GEM25A  
Supersedes date: 2021-05-07  
SDS-ID:

Page: 1/13  
Revision: 2021-06-14  
Version number: NZ-EN/2.0

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Product identifier

Product name: GEM25A  
GEM25ABKT

Container size: GEM25A: 25-lb. (11.36 kg) bag with handles  
GEM25ABKT: 25-lb. (11.36 kg) plastic bucket with locking lid

### Relevant identified uses of the substance or mixture and uses advised against

Application: Ground Enhancing Material

### Details of the supplier of the safety data sheet

Manufacturer: nVent  
ERICO International Corporation  
34600 Solon Road  
Solon, Ohio 44139  
Tel:(440) 248-0100

Supplier: Contract Connections Ltd.  
19A Zelanian Drive, East Tamaki  
2013 Auckland  
New Zealand  
Tel:+64 92744049  
office@contractconnections.co.nz

Further information can be obtained from: erico.compliance@nvent.com

### Emergency telephone number

Emergency telephone: New Zealand Poisons Centre: 0800 764 766 (24 hours a day, 7 days a week).

Chemtel  
+01-813-248-0585 International

# SAFETY DATA SHEET

Product name: GEM25A Page: 2/13  
Supersedes date: 2021-05-07 Revision: 2021-06-14  
SDS-ID: Version number: NZ-EN/2.0

---

## SECTION 2: HAZARDS IDENTIFICATION

### Classification of the substance or mixture

HSNO: Skin irritation Category 2  
Serious eye damage Category 1  
Skin Sensitisation Category 1  
Specific target organ toxicity - single exposure Category 3 respiratory tract irritation

### Label elements



Danger

### Contains:

Portland cement

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

P260 Do not breathe dust.

P280 Wear eye protection and gloves.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P501 Dispose of contents/container in accordance with local regulations.

### Other hazards

Other: Contact with wet cement/mixture may cause burns. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixtures

Only classified substances above threshold limits are shown.

---

# SAFETY DATA SHEET

Product name: GEM25A Page: 3/13  
Supersedes date: 2021-05-07 Revision: 2021-06-14  
SDS-ID: Version number: NZ-EN/2.0

---

HSNO:

| <u>%:</u> | <u>CAS-No.:</u> | <u>EC No.:</u> | <u>REACH<br/>Reg. No:</u> | <u>Chemical name:</u>      | <u>Hazard classification:</u>   | <u>Notes:</u> |
|-----------|-----------------|----------------|---------------------------|----------------------------|---|---------------|
| 10-30     | 65997-15-1      | 266-043-4      | -                         | Portland cement            | Skin Irrit. 2;H315<br>Eye Dam. 1;H318<br>Skin Sens. 1;H317<br>STOT SE 3;H335      |               |
| <2.5      | 13780-06-8      | 237-424-2      | -                         | Nitrous acid, calcium salt | Ox. Sol. 3;H272<br>Acute Tox. 4;H302<br>Eye Irrit. 2;H319<br>Aquatic Acute 1;H400 |               |

Notes: SCL (13780-06-8):  
M(ac): 1

Reference: The full text for all hazard statements is displayed in section 16.

## SECTION 4: FIRST AID MEASURES

### Description of first aid measures

Inhalation: Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring these instructions.

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. Seek medical attention for all burns, regardless how minor they may seem.

Eye contact: Important! Immediately rinse with water for at least 15 minutes. Do not rub eye. Seek medical attention for all burns, regardless how minor they may seem.

Ingestion: Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.

### Most important symptoms and effects, both acute and delayed

Symptoms/effects: Contact with wet cement/mixture may cause burns. Chronic inflammation of nose, throat and bronchial tubes. May cause allergic skin disorders in sensitive individuals.

### Indication of any immediate medical attention and special treatment needed

Medical attention/treatments: Treat symptomatically.

---

# SAFETY DATA SHEET

|                  |            |                 |            |
|------------------|------------|-----------------|------------|
| Product name:    | GEM25A     | Page:           | 4/13       |
| Supersedes date: | 2021-05-07 | Revision:       | 2021-06-14 |
| SDS-ID:          |            | Version number: | NZ-EN/2.0  |

---

## SECTION 5: FIREFIGHTING MEASURES

### Extinguishing media

Extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog.

### Special hazards arising from the substance or mixture

Specific hazards: Water used for fire extinguishing, which has been in contact with the product, may be corrosive.

### Advice for firefighters

Protective measures for fire-fighters: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid inhalation of dust. Avoid contact with eyes and prolonged skin contact.

Protective equipment: Wear eye protection and gloves.

### Environmental precautions

Environmental precautions: Avoid release to the environment. Inform Authorities if large amounts are involved.

### Methods and material for containment and cleaning up

Methods for cleaning up: Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like.

### Reference to other sections

Reference: For personal protection, see section 8.  
For waste disposal, see section 13.

---

# SAFETY DATA SHEET

|                  |            |                 |            |
|------------------|------------|-----------------|------------|
| Product name:    | GEM25A     | Page:           | 5/13       |
| Supersedes date: | 2021-05-07 | Revision:       | 2021-06-14 |
| SDS-ID:          |            | Version number: | NZ-EN/2.0  |

---

## SECTION 7: HANDLING AND STORAGE

### **Precautions for safe handling**

Safe handling advice: Avoid spreading dust. Avoid inhalation of dust. Avoid contact with eyes and prolonged skin contact. Change contaminated clothing. Observe good chemical hygiene practices.

Technical measures: Use work methods which minimise dust production.

Technical precautions: Mechanical ventilation may be required. Provide easy access to water supply and eye wash facilities.

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

Technical measures for safe storage: No special precautions.

Storage conditions: Store in closed original container in a dry place. Seal opened containers and use up as soon as possible. When stored in humid conditions, the chromate neutralisation will decrease.

### **Specific end use(s)**

Specific use(s): Ground Enhancing Material

---

# SAFETY DATA SHEET

Product name: GEM25A Page: 6/13  
Supersedes date: 2021-05-07 Revision: 2021-06-14  
SDS-ID: Version number: NZ-EN/2.0

---

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Occupational exposure limits:

| <u>CAS-No.:</u> | <u>Chemical name:</u>          |   | <u>Exposure limits:</u> | <u>Type:</u> | <u>Notes:</u> | <u>References:</u> |
|-----------------|--------------------------------|---|-------------------------|--------------|---------------|--------------------|
| 65997-15-1      | Portland cement                | - | 3 mg/m <sup>3</sup>     | TWA          | dсен          | WES                |
| 65997-15-1      | Portland cement,<br>respirable | - | 1 mg/m <sup>3</sup>     | TWA          | сен           | WES                |
| 1317-65-3       | Calcium carbonate              | - | 10 mg/m <sup>3</sup>    | TWA          | -             | WES                |

Notes: сен: Sensitiser.  
dсен: Dermal sensitiser.  
WES: Workplace Exposure Standards and Biological Exposure Indices (11th Edition - 2019).

DNEL/PNEC: No data available.

### Exposure controls

Engineering measures: Provide adequate ventilation. Observe occupational exposure limits and minimise the risk of inhalation of dust. An eye wash bottle must be available at the work site.

Personal protection: Personal protection equipment should be chosen according to the relevant standards and in discussion with the supplier of the personal protective equipment.

Respiratory equipment: In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter.

Hand protection: Wear protective gloves. Nitrile gloves are recommended. Thickness: 0.7 mm. Breakthrough time: > 8 h  
Other types of gloves can be recommended by the glove supplier.

Eye protection: Wear goggles/face shield.

Skin protection: Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures: Wash hands after handling. Do not eat, drink or smoke when using the product. Change contaminated clothing. Wash contaminated clothing before reuse.

---

# SAFETY DATA SHEET

Product name: GEM25A  
Supersedes date: 2021-05-07  
SDS-ID:

Page: 7/13  
Revision: 2021-06-14  
Version number: NZ-EN/2.0

---

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance: Powder.  
Colour: Grey.  
Odour: Odourless.  
Odour threshold: Not available.  
pH: 12.3 (Solution.)  
Melting point / freezing point: 3500 °C  
Boiling point: Not relevant.  
Flash point: Not available.  
Evaporation rate: Not available.  
Explosion limits: Not available.  
Vapour pressure: Not relevant.  
Vapour density: Not available.  
Relative density: 0.9  
Solubility: Slightly soluble in water  
Partition coefficient (n-octanol/water): Not available.  
Auto-ignition temperature (°C): Not available.  
Decomposition temperature (°C): Not available.  
Viscosity: Not available.  
Oxidising properties: Not available.  
**Other information**  
Other data: Not available.

---

# SAFETY DATA SHEET

Product name: GEM25A  
Supersedes date: 2021-05-07  
SDS-ID:

Page: 8/13  
Revision: 2021-06-14  
Version number: NZ-EN/2.0

---

## SECTION 10: STABILITY AND REACTIVITY

### **Reactivity**

Reactivity: Not reactive.

### **Chemical stability**

Stability: Stable under normal temperature conditions.

### **Possibility of hazardous reactions**

Hazardous Reactions: None known.

### **Conditions to avoid**

Conditions/materials to avoid: Keep dry until used.

### **Incompatible materials**

Incompatible materials: None known.

### **Hazardous decomposition products**

Hazardous decomposition products: Polymerization will not occur.

---



# SAFETY DATA SHEET

|                  |            |                 |            |
|------------------|------------|-----------------|------------|
| Product name:    | GEM25A     | Page:           | 9/13       |
| Supersedes date: | 2021-05-07 | Revision:       | 2021-06-14 |
| SDS-ID:          |            | Version number: | NZ-EN/2.0  |

---

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on toxicological effects

Acute Toxicity (Oral): Based on available data, the classification criteria are not met.

Acute Toxicity (Dermal): Based on available data, the classification criteria are not met.

Acute Toxicity (Inhalation): Based on available data, the classification criteria are not met.

Skin Corrosion/Irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitisation: May cause an allergic skin reaction.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive Toxicity: Based on available data, the classification criteria are not met.

STOT - Single exposure: May cause respiratory irritation.

STOT - Repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Inhalation: Dust may irritate throat and respiratory system and cause coughing.

Skin contact: Prolonged contact with wet cement/mixture may cause burns. Dust has an irritating effect on moist skin.

Eye contact: Dust or splashes from the mixture may cause permanent eye damage. Immediate first aid is necessary.

Ingestion: Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

Specific effects: Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. May cause allergic skin disorders in sensitive individuals.

Toxicological data: Nitrous acid, calcium salt:  
Acute Toxicity (Oral LD50): 940 mg/kg

---

# SAFETY DATA SHEET

|                  |            |                 |            |
|------------------|------------|-----------------|------------|
| Product name:    | GEM25A     | Page:           | 10/13      |
| Supersedes date: | 2021-05-07 | Revision:       | 2021-06-14 |
| SDS-ID:          |            | Version number: | NZ-EN/2.0  |

---

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

Ecotoxicity: The product contains a substance which is very toxic to aquatic organisms.  
Nitrous acid, calcium salt: M-factor (acute): 1

### Persistence and degradability

Degradability: In the presence of water the product hardens to a solid mass which is not biodegradable.

### Bioaccumulative potential

Bioaccumulative potential: No data available on bioaccumulation.

### Mobility in soil

Mobility: The product is not volatile but may be spread by dust-raising handling.

### Results of PBT and vPvB assessment

PBT/vPvB: This product does not contain any PBT or vPvB substances.

### Other adverse effects

Other adverse effects: None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.  
Waste is classified as hazardous waste.

Waste from residues: L-Code: 10 13 06

---

# SAFETY DATA SHEET

Product name: GEM25A  
Supersedes date: 2021-05-07  
SDS-ID:

Page: 11/13  
Revision: 2021-06-14  
Version number: NZ-EN/2.0

---

## SECTION 14: TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### **UN number**

UN-No: -

### **UN proper shipping name**

Proper Shipping Name: -

### **Transport hazard class(es)**

Class: -

### **Packing group**

PG: -

### **Environmental hazards**

Marine pollutant: -

Environmentally Hazardous  
substance: -

### **Special precautions for user**

Special precautions: -

### **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Transport in bulk: -

---

# SAFETY DATA SHEET

|                  |            |                 |            |
|------------------|------------|-----------------|------------|
| Product name:    | GEM25A     | Page:           | 12/13      |
| Supersedes date: | 2021-05-07 | Revision:       | 2021-06-14 |
| SDS-ID:          |            | Version number: | NZ-EN/2.0  |

---

## SECTION 15: REGULATORY INFORMATION

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

All chemicals included in the product are NZIoC listed or fall under notification exceptions.

N.O.S. (Subsidiary Hazard) Group Standard 2020  
HSNO Approval Number for this Group Standard is HSR002624

**Special provisions:** As a general rule, persons under 15 years of age are not allowed to work with this product. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.

**National regulation:** Hazardous Substances and New Organisms Act 1996 (HSNO), as amended 2018.  
Hazardous Substances (Minimum Degrees of Hazard) Notice 2017.  
Hazardous Substances (Classification) Notice 2017.  
Hazardous Substances (Safety Data Sheets) Notice 2017.  
Workplace Exposure Standards and Biological Exposure Indices (11th Edition - 2019).  
New Zealand Waste List.  
Health and Safety at Work (General Risk and Workplace Management) Regulations 2016 (the GRWM Regulations).  
New Zealand Inventory of Chemical Substances (NZIoC).

---

# SAFETY DATA SHEET

|                  |            |                 |            |
|------------------|------------|-----------------|------------|
| Product name:    | GEM25A     | Page:           | 13/13      |
| Supersedes date: | 2021-05-07 | Revision:       | 2021-06-14 |
| SDS-ID:          |            | Version number: | NZ-EN/2.0  |

---

## SECTION 16: OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

For restrictions on use see section 15.

Abbreviations and acronyms used in the safety data sheet: M(ac) = M-factor acute toxicity.  
PBT = Persistent, Bioaccumulative and Toxic.  
vPvB = very Persistent and very Bioaccumulative.  
SCL = Specific Concentration Limit.

Additional information: Classification according to HSNO: Calculation method.

Revision date: 2021.06.14

### Wording of H-statements:

|      |                                      |
|------|--------------------------------------|
| H272 | May intensify fire; oxidiser.        |
| H302 | Harmful if swallowed.                |
| H315 | Causes skin irritation.              |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage.           |
| H319 | Causes serious eye irritation.       |
| H335 | May cause respiratory irritation.    |
| H400 | Very toxic to aquatic life.          |

---

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

---