

SAFETY DATA SHEET



Product name: GEM25A
Supersedes date: 2025-08-11
SDS-ID: GEM25A_US

Page: 1/12
Revision: 2025-10-03
Version number: US-EN/3.0

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

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

Emergency telephone number

Emergency telephone: National Capital Poison Center: 1-800-222-1222
Chemtel: 1-800-255-3924

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SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA 2012:
Skin Irritation Category 2
Serious Eye Damage Category 1
Skin Sensitizer Category 1
STOT Single Exposure Category 3 (respiratory tract irritation)
Combustible Dust

Label elements



Danger

Contains: Portland cement, Carbonaceous material.

[H315] Causes skin irritation.

[H318] Causes serious eye damage.

[H317] May cause an allergic skin reaction.

[H335] May cause respiratory irritation.

May form combustible dust concentrations in air.

[P261] Avoid breathing dust.

[P280] Wear eye protection and gloves.

[P302 + P352]
[P305/351/338] IF ON SKIN: Wash with plenty of soap and water.
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/doctor.

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

[P271] Use only outdoors or in a well-ventilated area.

[P272] Contaminated work clothing should not be allowed out of the workplace.

[P304 + P340]
[P312] IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a poison center/doctor if you feel unwell.

[P332 + P313]
[P362 + P364] If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

[P403 + P233]
[P405] Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

Other hazards

Other:
Contact with wet cement/mixture may cause burns.
Dust may irritate throat and respiratory system and cause coughing. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. Dust has an irritating effect on moist skin.
This product does not contain any PBT or vPvB substances.
The product contains no substances identified as having endocrine disrupting properties.
The product contains a substance which is very toxic to aquatic life with long lasting effects.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Only classified substances above threshold limits or substances with an exposure limit are shown.

OSHA 2012:

<u>%:</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>REACH 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 Irritation Category 2 Serious Eye Damage Category 1 Skin Sensitizer Category 1 STOT Single Exposure Category 3	-
<2.5	13780-06-8	237-424-2	-	Calcium nitrite	Oxidizing Solid Category 3 Acute Oral Toxicity Category 4 Eye Irritation Category 2A Aquatic Acute Toxicity Category 1	-
60-80	Trade secret	Trade secret	-	Carbonaceous material	Combustible dust	-

Notes: #. The substance has been assigned an exposure limit.

SECTION 4: FIRST AID MEASURES

Description of first aid measures

<u>Inhalation:</u>	Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring these instructions.
<u>Skin contact:</u>	Remove contaminated clothing immediately and wash skin with soap and water. Seek medical attention for all burns, regardless of how minor they may seem.
<u>Eye contact:</u>	Important! Immediately rinse with water for at least 15 minutes. Do not rub eye. Seek medical attention for all burns, regardless of how minor they may seem.
<u>Ingestion:</u>	Immediately rinse mouth and drink 1-2 glasses of water. 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

<u>Symptoms/effects:</u>	Contact with wet cement/mixture may cause burns. Chronic inflammation of nose, throat and bronchial tubes. May cause allergic skin disorders in sensitive individuals.
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Indication of any immediate medical attention and special treatment needed

Medical attention/treatments: Treat symptomatically.

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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: No specific precautions.

Advice for firefighters

Protective equipment for fire-fighters: Selection of respiratory protection for firefighting: 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

Spill Cleanup Methods: Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like.

Reference to other sections

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

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 minimize 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 neutralization will decrease.

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Specific end use(s)

Specific use(s): Ground Enhancing Material.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits:

<u>CAS-No.:</u>	<u>Chemical name:</u>	<u>As:</u>	<u>Exposure limits:</u>	<u>Type:</u>	<u>Notes:</u>	<u>References:</u>
65997-15-1	Portland cement, respirable fraction	-	5 mg/m ³	TWA	-	OSHA, NIOSH
65997-15-1	Portland cement, total dust	-	10 mg/m ³	TWA	-	OSHA, NIOSH
65997-15-1	Portland cement, Respirable particulate Matter (containing no asbestos and <1 % crystalline silica)	-	1 mg/m ³	TWA	A4	ACGIH
-	Inert or Nuisance Dust, Respirable fraction	-	5 mg/m ³	TWA	-	OSHA
-	Inert or Nuisance Dust, Total Dust	-	10 mg/m ³	TWA	-	OSHA
-	Particles (insoluble or poorly soluble) Not Otherwise Specified (PNOS), Respirable fraction	-	3 mg/m ³	TWA	-	ACGIH
-	Particles (insoluble or poorly soluble) Not Otherwise Specified (PNOS, Inhalable fraction	-	10 mg/m ³	TWA	-	ACGIH

Notes:

References:

A4: Not Classifiable as a Human Carcinogen.

ACGIH = American Conference of Governmental Industrial Hygienists. NIOSH = National Institute of Occupational Safety and Health. OSHA = Occupational Safety and Health Administration.

Exposure controls

Engineering measures:

Provide adequate ventilation. Observe Occupational Exposure Limits and minimize 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 ANSI 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. NIOSH approved dust mask recommended.

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 reusing.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance: Grey powder
Odor: Odorless.
Odor threshold: Not available.
pH: 12.3 (Solution.)
Melting point / freezing point: 6332 °F
Boiling point: Not relevant.
Flash point: Not available.
Evaporation rate: Not available.
Explosion limits: Not available.
Vapor pressure: Not relevant.
Vapor density: Not available.
Relative density: 0.9
Solubility: Slightly soluble in water.
Partition coefficient (n-octanol/water): Not available.
Auto-ignition temperature (°F): Not available.
Decomposition temperature (°F): Not available.
Viscosity: Not available.
Oxidizing properties: Not available.

Other information

Other data: Not available.

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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.

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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 sensitization: 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 esophagus 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.

This product contains no ingredient listed on the NTP, OSHA, IARC or California Proposition 65 carcinogen lists.

Toxicological data: Calcium nitrite:
Acute Toxicity (Oral LD50): 940 mg/kg

Other information

Other: The product does not contain any substance identified as having endocrine disrupting properties in humans

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SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity: The ecotoxicity of the product is not known.
The product contains a substance which is very toxic to aquatic organisms.
Calcium nitrite: 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.
The product does not contain any substance identified as having endocrine disrupting properties in aquatic organisms.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

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SECTION 14: TRANSPORT INFORMATION

The product is not covered by national or international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

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: -

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SECTION 15: REGULATORY INFORMATION

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

Special provisions: State and local regulation may apply.

TSCA: The ingredients of this product are on the TSCA Inventory.

SARA Section 302: No

SARA Section 304: No

SARA Section 313: No

EPCRA (SARA) 311/312 Hazard categories: 1 (Health)

NFPA Rating: Health:2 Fire:1 Reactivity:1 Other: -

National regulation: The following lists have been checked:

The Code of Federal Regulation, Title 29, part 1910. Occupational Safety and Health Standards, Hazard Communication (§ 1910.1200), with amendments.

The Code of Federal Regulation, Title 29, part 1910. Occupational Safety and Health Standards, Air contaminants (OSHA), with amendments.

NIOSH Pocket Guide to Chemical Hazards.

Threshold Limit Values (2025), ACGIH, by the American Conference on Governmental Industrial Hygienists.

The Code of Federal Regulation, Title 40, part 261.33. Identification and listing of hazardous waste.

The Code of Federal Regulation. Title 40, part 372.65. Toxic Chemical Release Reporting: Community Right to Know.

The Code of Federal Regulation. Title 40, part 355.50. Emergency Planning and Notification.

The Code of Federal Regulation. Title 40, part 302.4. Designation, Reportable Quantities, and Notification.

The Code of Federal Regulation. Title 40, part 68.130. Chemical Accident Prevention Provisions.

State of California. Environmental Protection Agency. California Proposition 65, with amendments.

U.S. Department of health and human services: the 15th Report on Carcinogens.

International Agency for Research on Cancer (IARC): IARC Monographs on the Evaluation of Carcinogenic Risks to Humans. Lyon: IARC, World Health Organization.

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SECTION 16: OTHER INFORMATION

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

The following sections contain revisions or new statements: 2, 3, 8, 16.

Abbreviations and acronyms

used in the safety data sheet: PBT = Persistent, Bioaccumulative and Toxic.
vPvB = very Persistent and very Bioaccumulative.
LD50 = Lethal Dose 50%.

Additional information: Classification according to HCS 2012: Calculation method.

Revision Date: 2025-10-03

Wording of H-statements:

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.