

Galvashield® Embedding Mortar

Safety Data Sheet

GALVANIC SYSTEMS



1. Product and Company Identification

PRODUCT NAME: Vector Galvashield Embedding Mortar
APPLICATION: Embedding mortar for Galvashield corrosion protection systems
COMPANY: Vector Corrosion Technologies
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2. Hazard Identification

CLASSIFICATION: Acute Toxicity, Category 4: Harmful if swallowed.
Skin Corrosion, Category: 1B Causes severe skin burns and eye damage.
Specific Target Organ Toxicity: Single Exposure, Category 3 May cause respiratory irritation.

LABEL ELEMENTS:

Hazard Pictograms:



Corrosion
For corrosive damage to metals as well as skin, eyes.



Exclamation Mark
May cause less serious health effects or damage the ozone layer.

Signal Word: Danger

Hazard Statements:

H302 / Harmful if swallowed.
H314 / Causes severe skin burns and eye damage.
H335 / May cause respiratory irritation.

Precautionary Statements:

P260 / Do not breathe dust or mist.
P280 / Wear protective gloves/protective clothing/eye protection/face protection.
P301/P330/P331 / IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.
P303/P353/P361 / IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
P304/P340 / IF INHALED: Remove victim to fresh air and keep at rest in a comfortable position for breathing.
P305/P338/P351 / 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 control center or doctor/physician.

Other Hazards: None

3. Composition/Information on Ingredients

Chemical Name	CAS #	EC #	Classification	Concentration %	Symbols
Cement, Portland	65997-15-1	266-043-4	Skin Irritation, 2, H315 Eye Damage, 1, H318 STOT-SE, 3, H335	30-60%	Xi
Silica Sand	14808-60-7	238-878-4	Not Classified	30-60%	
Alumina Silicate Hollow Microspheres	93924-19-7	300-212-6	Not Classified	5-10%	
Calcium Aluminate Sulphate	12005-25-3	12005-25-3	Skin Irrit. 2 - H315, Eye Dam. 1 - H318, STOT SE 3 - H335	<1%	

All constituents of this product are listed in EINECS (European Inventory of Existing Commercial Chemical Substances) or ELINCS (European List of New Chemical Substances) or are exempt. Refer to Section 8 for Occupational Exposure Limits.



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4. First Aid Measures

DESCRIPTION OF FIRST AID MEASURES:

Eyes: Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention. Show this Safety Data Sheet to the medical personnel.

Skin: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Get medical attention promptly if symptoms occur after washing.

Inhalation: Move affected person to fresh air at once. Dust in throat and nasal passages should clear spontaneously. Get medical attention if irritation persists or later develops, or if discomfort, coughing or other symptoms persist.

Ingestion: Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. Never give anything by mouth to an unconscious person. Get medical attention immediately.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

General Information: The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation: Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

Ingestion: Ingestion of large doses may result in irritation to the gastrointestinal tract.

Skin Contact: May have an irritating effect on moist skin after prolonged contact, or may cause dermatitis after repeated contact. Prolonged skin contact with wet preparation may cause serious burns without pain being felt, including through clothing.

Eye Contact: Eye contact may cause serious and potentially irreversible injuries.

5. Firefighting Measures

Suitable Extinguishing Media: Dry chemical, CO₂, water spray or regular foam.

Hazardous Combustion Products: Corrosive lithium dust.

Advice for Firefighters: Wear full protective clothing and self-contained breathing apparatus approved for firefighting.

Further Information: Standard procedure for fighting chemical fires.

6. Accidental Release Measures

Personal Precautions: Wear rubber boots in addition to the recommended personal protective equipment.

Environmental Precautions: Prevent entry into drains, sewers and water courses.

Methods for Cleaning Up: Avoid the creation of dust in atmosphere. Gather into suitable container.

7. Handling and Storage

Handling: Avoid creating dust. Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid skin and eye contact.

Storage: Store in cool, dry area.



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8. Exposure Controls/Personal Protection

CONTROL PARAMETERS:

TLV = Threshold Limit Value 10 mg/m³

WEL = Workplace Exposure Limit.

Long-term Exposure Limits	Silica Sand	Ordinary Portland Cement	Alumina Silicate Hollow Microspheres	Calcium Aluminate Sulphate
Inhalable Dust	(8-hour TWA): WEL 0,05 mg/m ³	(8-hour TWA): WEL 10 mg/m ³	(8-hour TWA): 10 mg/m ³	
Respirable Dust		(8-hour TWA): WEL 4 mg/m ³	(8-hour TWA): 4 mg/m ³	(8-hour TWA): ACGIH/TLV:0.1 mg/m ³

Engineering Control Measures: Atmospheric levels of dust must be maintained within the Occupational Exposure Limit. Where mechanical methods are inadequate or impractical, appropriate personal protective equipment must be used.

Personal Protective Equipment: Impervious gloves (eg PVC). Goggles / Safety glasses. Approved dust mask. Change contaminated clothing immediately and clean before re-use.

9. Physical and Chemical Properties

Appearance:	Powder
Colour:	Light grey/brown
Odour:	Odourless
Odour Threshold:	Not applicable
Ph(working dilution):	>12
Boiling Point/Range (°C):	Not applicable
Melting Point/range (°C):	Not applicable
Evaporation Rate:	Not applicable
Flash Point (closed, (°C):	Not applicable
Auto-Ignition Temp (°C):	Not applicable
Ignition Temp (°C):	Not applicable
Oxidizing Properties:	Not applicable
Vapour Pressure:	Not applicable
Lower Explosion Limit (vol-%):	Not applicable
Upper Explosion Limit (vol-%):	Not applicable
Flammability (solid/gas):	Not applicable
Relative Density (at 20°C):	3.0
Water Solubility:	Slightly soluble in water. Hardens in contact with water.
Viscosity:	Not applicable

10. Stability and Reactivity

Reactivity:	Reacts with acids.
Chemical Stability:	The product is chemically stable.
Possibility of Hazardous Reactions:	Stable under recommended storage conditions.
Conditions to Avoid:	Contact with acids.
Incompatible Materials:	Acids
Hazardous Decomposition Products:	None



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11. Toxicological Information

DESCRIPTION OF FIRST AID MEASURES:

Skin Corrosion/ Irritation:	Corrosive, causes severe burns.
Eye Damage/ Irritation:	Severe irritation. Causes irreversible damage to eye tissue if not removed promptly.
Respiratory or Skin Sensitization:	Some individuals may exhibit eczema upon exposure to wet cement caused either by the high pH which induces irritant contact dermatitis, or by an immunological reaction to soluble Cr (VI) which elicits allergic contact dermatitis. The cement contains a soluble Cr (VI) reducing agent and as long as the mentioned period of effectiveness is not exceeded, a sensitising effect is not expected.
Germ Cell Mutagenicity:	No data available.
Carcinogenicity:	No data available.
Inhalation:	Irritating to respiratory system. Inflammation of the nasal mucous membrane by exposure to cement dust.
Repeated Exposure:	Repeated ingestion may cause dizziness, ringing in the ears, visual disturbances, tremors and mental confusion. Prolonged absorption may affect electrolyte balance, impair kidney function and thyroid disturbances. 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

Environmental Assessment:	Little detailed information is available on the ecological effects of this product, but its overall environmental impact is not regarded as significant.
Toxicity:	Not determined. The product is not expected to be hazardous to the environment. The addition of cements to water will, however, cause the pH to rise and may therefore be toxic to aquatic life in some circumstances.
Persistence/ Degradability:	The product is not biodegradable.
Bioaccumulative Potential:	The product is not bioaccumulating.
Mobility in Soil:	The product hardens to a solid, immobile substance. The product is not volatile but may be spread by dust-raising handling.

13. Toxicological Information

Disposal must be in accordance with local, regional, and national legislation.

Unused Product:	Dispose of in an approved manner.
Used/ Contaminated Product:	Dispose of in an approved manner.
Packaging:	The method of disposal must be acceptable to the local authority.

14. Transport Information

This product is NOT classified as dangerous for transport.

15. Regulatory Information

Safety, Health And Environmental Regulations Specific for the Substance or Mixture:	No data available for the product.
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16. Other Information

May 1, 2020. All sections revised, new format.

This SDS has been prepared to meet U.S. Osha Hazard Communication Standard, 29 CFR 1910.1200 and Canada's Workplace Hazardous Materials Information System (WHMIS) Requirements.

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. The product should not be used other than for the stated application or applications without seeking advice from Vector Corrosion Technologies.

If this product has been purchased for supply to a third party for use at work, it is the purchaser's duty to take all necessary steps to ensure any person handling or using the product is provided with the information in this sheet.

It is the responsibility and duty of the employer to inform employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.

This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation.

The information in the Safety Data Sheet was obtained from sources we believe are reliable. The information, however, is provided without any representation or warranty, expressed or implied regarding the accuracy or correctness.

The condition or methods of handling, storage, use and disposal of the product are beyond our control. We do not assume responsibility and expressly disclaim liability for loss, damage or exposure arising out of or in any way connected with the handling, storage, use or disposal of the product.

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