



ES Block

SECTION 1. IDENTIFICATION

Product Identifier ES Block
Other Means of Identification none
Product Family Inorganic mineral carbonate brick
Recommended Use Used in the construction of corrosion-resistant linings.
Restrictions on Use None known.
Manufacturer/Supplier Identifier The Stebbins Engineering and Manufacturing Company, 363 Eastern Boulevard, Watertown, NY, 13601, (315) 782-3000, www.stebbinseng.com
Emergency Phone No. Chemtrec - Within North America, 1-800-424-9300, 24 hours
Stebbins 24 Hour Contact-, 1-315-788-6624
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SECTION 2. HAZARD IDENTIFICATION

Classification

Acute toxicity (Inhalation) - Category 4; Specific target organ toxicity (repeated exposure) - Category 2

Label Elements



Signal Word:
Warning

Hazard Statement(s):

H332 Harmful if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement(s):

Prevention:
P261 Avoid breathing dust.
Response:
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314 Get medical advice/attention if you feel unwell.
Disposal:
P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

Other Hazards

Cutting and grinding of SEMAG concretes, bricks and mortars will produce respirable dust. Personal protective

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equipment (PPE), proper work practices, and engineering controls will reduce exposure to respirable dust.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Inorganic mineral carbonates	471-34-1	35 - 40 %	Fine Carbonaceous aggregate	N/A
Crushed carbonate stone	471-34-1	35 - 40 %	Coarse Carbonaceous aggregate	N/A
Hydraulic cement	65997-15-1	10 - 30 %	Cement	N/A
Silica, quartz	14808-60-7	3 - 5 %	Crystalline Silica	N/A

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Remove source of exposure or move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If skin irritation occurs, get medical advice or attention.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice or attention.

Ingestion

Do not induce vomiting. Give large quantities of water to drink. Immediately call a Poison Centre or doctor.

First-aid Comments

Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

If inhaled and/or swallowed: can cause effects as described for inhalation. Symptoms may include coughing, choking, shortness of breath, difficult or rapid breathing and wheezing. Can cause severe irritation of the nose and throat. Can cause severe lung injury.

Immediate Medical Attention and Special Treatment

Target Organs

Lungs, respiratory system, eyes, skin.

Special Instructions

Monitor lung function.

Medical Conditions Aggravated by Exposure

Skeletal conditions.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

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Unsuitable Extinguishing Media

Do not use water jet.

Specific Hazards Arising from the Product

Does not burn. See Section 9 (Physical and Chemical Properties) for flash point and explosive limits.

Not known to generate any hazardous decomposition products in a fire.

Special Protective Equipment and Precautions for Fire-fighters

No special precautions are necessary.

See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical protective materials.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Emergency responders: evacuate downwind locations. Keep dust to a minimum. Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

It is good practice to prevent releases into the environment. Minimize the use of water to prevent environmental contamination.

Methods and Materials for Containment and Cleaning Up

Avoid generating dust. Avoid dry sweeping. If necessary, use a dust suppressant such as water. Do not use compressed air for clean-up. Store recovered product in suitable containers that are: covered.

Other Information

Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid generating dusts. Do not get in eyes, on skin or on clothing. Wash hands thoroughly after handling this product and before eating, using the washroom or leaving work area.

Conditions for Safe Storage

Comply with all applicable health and safety regulations, fire and building codes.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Silica, quartz	0.025 mg/m3 A4		0.1 mg/m3			

Appropriate Engineering Controls

Do not allow product to accumulate in the air in work or storage areas, or in confined spaces. Use local exhaust ventilation and enclosure, if necessary, to control amount in the air.

Individual Protection Measures

Eye/Face Protection

Wear approved safety glasses.

Skin Protection

Cover as much exposed skin as possible. Clothing should be cleaned before reusing.
Suitable materials are: cloth, leather, natural rubber.

Respiratory Protection

If dust is generated: wear a NIOSH approved particulate respirator equipped with an N95, R95, or P95 filter.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Light grey.
Odour	Odourless
Odour Threshold	Not applicable
pH	Not applicable
Melting Point/Freezing Point	Not applicable (melting); Not applicable (freezing)
Boiling Range	Not applicable
Flash Point	Not available
Evaporation Rate	Not applicable
Flammability (solid, gas)	Will not burn.
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	<= 1.47
Solubility	Insoluble in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not applicable
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not applicable
Viscosity	Not applicable (kinematic); Not applicable (dynamic)
Other Information	
Physical State	Solid
Bulk Density	<= 92 lb/ft ³ (1 kg/L)
Critical Temperature	Not available
Other Physical Property 1	Brick is slightly alkaline

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Unstable under certain conditions - see Conditions to Avoid.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Acidic conditions (low pH). High temperatures.

Incompatible Materials

Forms corrosive chemicals on contact with: inorganic acids (e.g. hydrofluoric acid), strong oxidizing agents (e.g. perchloric acid).

Hazardous Decomposition Products

Carbon monoxide; carbon dioxide.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

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Likely Routes of Exposure

Inhalation; eye contact; skin contact.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Silica, quartz	Not available	500 mg/kg (rat) (dust)	Not available

LC50 (Inhalation)

No information was located.

LD50 (Oral)

No information was located.

LD50 (Dermal)

No information was located.

Skin Corrosion/Irritation

Human experience shows very mild irritation.

Serious Eye Damage/Irritation

Human experience shows very mild irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

If dust is generated by cutting, sanding, or grinding: may cause lung injury, nose and throat irritation.

Skin Absorption

Abrasive. Causes dry, irritated skin.

Ingestion

If small amounts are swallowed not harmful based on information for closely related materials. If large amounts are swallowed may cause intestinal distress.

Aspiration Hazard

No information was located.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

If dust is generated by cutting, sanding, or grinding: may cause lung injury. Symptoms may include shortness of breath, rapid breathing, and coughing. The ability to do some physical activities can be reduced.

Respiratory and/or Skin Sensitization

Not known to be a respiratory sensitizer. Not known to be a skin sensitizer.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Silica, quartz	Group 1	A2	Known carcinogen	Not Listed

This product contains silica, which is a known carcinogen when inhaled. However, the amount that is in respirable form is < 1%. Has been associated with: lung cancer, silicosis, increased risk of tuberculosis.

Key to Abbreviations

IARC = International Agency for Research on Cancer. Group 1 = Carcinogenic to humans. ACGIH® = American Conference of Governmental Industrial Hygienists. A2 = Suspected human carcinogen. NTP = National Toxicology Program. Known carcinogen = Known human carcinogen. OSHA = US Occupational Safety and Health Administration.

Reproductive Toxicity

Development of Offspring

No information was located.

Sexual Function and Fertility

No information was located.

Effects on or via Lactation

No information was located.

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Germ Cell Mutagenicity

No information was located.

Interactive Effects

No information was located.

No information was located for: Interactive Effects

SECTION 12. ECOLOGICAL INFORMATION

Environmental information was not located.

Ecotoxicity

Studies were not located.

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal Methods**

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction. Store product for disposal as described under Storage in Section 7 of this safety data sheet.

SECTION 14. TRANSPORT INFORMATION

This section is not required by WHMIS 2015. This section is not required by OSHA HCS 2012.

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
US DOT		Non-Regulated		
Canadian TDG		Non-Regulated		
IATA (Air)		Non-Regulated		
IMO (Marine)		Non-Regulated		

Environmental Hazards Not applicable

Special Precautions Not applicable

Transport in Bulk according to International Maritime Organization Instruments

Not applicable

SECTION 15. REGULATORY INFORMATION**Safety, Health and Environmental Regulations****Canada****Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)**

All ingredients are listed on the DSL or are not required to be listed.

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CEPA - National Pollutant Release Inventory (NPRI)

Not specifically listed.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

Additional USA Regulatory Lists

US Federal OSHA Hazardous Chemical, include in HazCom program. CERCLA: Not listed. SARA Title III - Section 311/312: Hazardous Substance Chronic Health Hazard. SARA Title III - Section 313: Not listed. California Proposition 65. (Silica, quartz) (respirable size) Known to cause cancer.

SECTION 16. OTHER INFORMATION

NFPA Rating	Health - 4	Flammability - 0	Instability - 0
SDS Prepared By	B.E.R		
Phone No.	(315) 782-3000		
Date of Preparation	August 31, 2015		
Date of Last Revision	June 30, 2023		
Revision Indicators	Revision 5 Updated C.A.S.# reviewed and approved		
Key to Abbreviations	ACGIH® = American Conference of Governmental Industrial Hygienists AIHA® = AIHA® Guideline Foundation IARC = International Agency for Research on Cancer NFPA = National Fire Protection Association NIOSH = National Institute for Occupational Safety and Health NTP = National Toxicology Program OSHA = US Occupational Safety and Health Administration		
References	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS).		
Disclaimer	NOTE: The information contained herein is, to the best of our knowledge, accurate and reliable. However, no warranty is expressed or implied regarding the accuracy of this information, or the results to be obtained from the use thereof.		

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