



## SAFETY DATA SHEET

CEM II CEMENT

11<sup>th</sup> Oct 2021

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Complying with Regulation (EC) No 1272/2008 (CLP) as amended by Commission Regulation (EU) 2015/830. Complying with Israeli Safety at Work Regulations (Safety Data Sheet, Classification, Packaging, Labelling and Marking of Packaging) - 1998 and SI 2302, based on EU Regulation (EC) No 1272/2008 (CLP).

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

#### 1.1 Product identifier

**Product name:** CEM II CEMENT  
**CAS Number:** Mixture  
**EC Number:** Not applicable  
**REACH No:** Not applicable

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

**Relevant identified uses:** Multi-use cement, useful in all construction elements – blocks, bricks, ready-mix concrete, floor tiles and prefabricated concrete.  
**Uses advised against:** Uses other than those described above.

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

**Company Name:** Nesher Israel Cement Enterprises LTD.  
**Company Address:** POB 5, Ramla  
7210001 Israel  
**Company Tel:** +972-8-9271717  
**Contact Name:** Shavit Dan  
**E-mail address of person responsible for this SDS:** sdan@nesher.co.il

#### 1.4 Emergency telephone number

**Emergency telephone number (including hours of operation):** +972-8-9253551

**Poison Centre Information:** Israel Poison Information Centre, Rambam Health Care Campus,  
P.O.Box 9602, Haifa 31096, Israel.  
Phone (972-4) 854-2725. Fax (972-4) 854-2092

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification in accordance to Regulation (EC) No. 1272/2008 (CLP/GHS)

Product name	GHS Classification
CEM II CEMENT	Skin Corrosion (Category 1), H314 Skin Sensitisation (Category 1B), H317 Serious Eye Damage (Category 1), H318 Specific Target Organ Toxicity - Single Exposure (Category 3), Respiratory System, H335

**2.2 Label elements**

Labelling in accordance with Regulation 1272/2008 (CLP)

Hazard pictograms:



**Signal word:** DANGER

**Hazard statements:**  
H314 - Causes severe skin burns and eye damage  
H317 - May cause an allergic skin reaction  
H335 - May cause respiratory irritation

**Precautionary Statements:**  
P260 - Do not breathe dust / fume / gas / mist / vapours / spray.  
P280 - Wear protective gloves/protective clothing/eye protection / face protection.  
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P305+P351+P338 - 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.

**Supplemental Hazard Statements.** None known

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substances :**  
Not applicable.

**3.2 Mixture :**

Product/ Ingredient name	Identifiers	%	Classification 1272/2008/EC	M Factor	Specific conc'n limits (SCL)	Acute toxicity estimate (ATE)
<b>Clinker</b>	CAS No 65997-15-1  EC No 266-043-4  REACH No n/a	65 - 94%	Skin Irrit 2, H315 Skin Sens 1B, H317 Eye Dam 1, H318 STOT SE 3, H335	1	No SCL in Annex VI	No ATE in Annex VI

Product/ Ingredient name	Identifiers	%	Classification 1272/2008/EC	M Factor	Specific conc'n limits (SCL)	Acute toxicity estimate (ATE)
Limestone	CAS No 1317-65-3  EC No 215-279-6  REACH No n/a	0 - 25%	Not classified as hazardous under CLP	1	No SCL in Annex VI	No ATE in Annex VI
Granulated blast furnace slag	CAS No 65996-69-2  EC No 266-002-0  REACH No 01-2119487456-25-0026	0 - 10%	Not classified as hazardous under CLP	1	No SCL in Annex VI	No ATE in Annex VI
Calcium sulphate dihydrate	CAS No 10101-41-4  Index No 600-148-1  REACH No n/a	< 5%	Not classified as hazardous under CLP	1	No SCL in Annex VI	No ATE in Annex VI

Please note that this product contains coal fly ash at upto 10%, which is not classified as hazardous. Based upon the analysis of coal fly ash, there are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.  
See section 16 for the full text of the EUH, H and P phrases declared above.

#### **SECTION 4: FIRST AID MEASURES**

##### **4.1 Description of first aid measures**

**Eye contact:** Immediately flush eye(s) with plenty of clean water for at least 15 minutes, while holding the eyelid(s) open. Occasionally lift the eyelid(s) to ensure thorough rinsing. Beyond flushing, do not attempt to remove material from eye(s). Contact a physician if irritation persists or later develops.

**Skin contact:** Remove heavily contaminated clothing. Wash skin with soap and water. Contact a physician if irritation persists or later develops.

**Inhalation:** Remove person to fresh air. Dust in throat and nasal passages should clear spontaneously. Contact a physician if irritation persists or later develops.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Obtain medical attention immediately.

**4.2 Most important symptoms and effects, both acute and delayed**

Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation.

Dust may irritate the skin and respiratory tract. Breathing silica-containing dust for prolonged periods in the workplace can cause lung damage and a lung disease called silicosis. Symptoms of silicosis may include (but are not limited to) shortness of breath, difficulty breathing with or without exertion; coughing; diminished work capacity; diminished chest expansion; reduction of lung volume; right heart enlargement and/or failure. Not all individuals with silicosis will exhibit symptoms of the disease. However, silicosis can be progressive, and symptoms can appear at any time, even years after exposures have ceased. Persons with silicosis have an increased risk of pulmonary tuberculosis infection

**4.3 Indication of any immediate medical attention and special treatment needed**

If any symptoms are observed, contact a physician and give them this SDS sheet.

**SECTION 5: FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

Suitable extinguishing media: This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: None known.

**5.2 Special hazards arising from the substance or mixture**

None known

Hazardous combustion products:

None known.

**5.3 Advice for firefighters**

Use appropriate protective equipment as conditions warrant (see Section 8).

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders**

Wear respiratory protection. Avoid breathing vapours, mist, dust or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Wear appropriate protective equipment, such as gloves, goggles and protective clothing, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

**6.2 Environmental precautions**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has entered the environment, including waterways, soil or air. Materials can enter waterways through drainage systems.

**6.3 Methods and materials for containment and cleaning up**



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Small spill: Move containers from spill area. Avoid dust generation. If possible, vacuum dust with equipment fitted with a HEPA filter, and place in a closed, labelled waste container. Dispose of waste material by using a licensed waste disposal contractor.

Large spill: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. If possible, vacuum dust with equipment fitted with a HEPA filter, and place in a closed, labelled waste container. If vacuuming is not possible, gently sweep (to avoid dust generation). Large spills to waterways may be hazardous due to alkalinity of the product. Dispose of waste material using a licensed waste disposal contractor.

### **6.4 Reference to other sections**

See Section 1 for emergency contact information.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1 Precautions for safe handling**

Put on appropriate personal protective equipment (see Section 8). Avoid exposure by obtaining and following special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material and keep the container tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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

Every attempt should be made to avoid skin and eye contact. Do not get cement inside boots, shoes or gloves. Do not allow wet, saturated clothing to remain against the skin. Promptly remove clothing and shoes that are dusty or wet with cement mixtures. Launder/clean clothing and shoes before reuse. Do not enter a confined space that stores or contains cement unless appropriate procedures and protection are available. This product can build up or adhere to the walls of a confined space and then release or fall suddenly (engulfment).

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

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## **SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION**

### **8.1 Control parameters**

Occupational exposure limit values:

<b>Ingredient name</b>	<b>CAS Number</b>	<b>Occupational exposure limits</b>		<b>Source</b>
<b>Clinker</b>	65997-15-1	TWA	4 mg/m3 (respirable) 10 mg/m3 (inhalable dust)	EH40 Workplace Exposure limits
		STEL	None known	
<b>Limestone</b>	1317-65-3	TWA	4 mg/m3 (respirable)	EH40 Workplace Exposure limits

Ingredient name	CAS Number	Occupational exposure limits		Source
			10 mg/m <sup>3</sup> (inhalable dust)	
		STEL	None known	
<b>Granulated blast furnace slag</b>	65996-69-2	TWA	3 mg/m <sup>3</sup> (respirable) 10 mg/m <sup>3</sup> (inhalable dust)	EH40 Workplace Exposure limits
		STEL	None known	
<b>Calcium sulphate dihydrate</b>	10101-41-4	TWA	4 mg/m <sup>3</sup> (respirable) 10 mg/m <sup>3</sup> (inhalable dust)	EH40 Workplace Exposure limits
		STEL	None known	

**Monitoring procedures:** Use methods described in European Standards.

**Derived No Effect Level (DNEL):**

Clinker

None known

Limestone

None known

Granulated blast furnace slag

None known

Calcium sulphate dihydrate

None known

**Predicted No Effect Concentration (PNEC):**

Clinker

None known

Limestone

None known

Granulated blast furnace slag

Compartment	Value
Fresh water	5 g/L
Marine water	0.5 g/L
Sewage treatment plant	10 g/L
Fresh water sediment	Insufficient hazard data available (further information necessary)
Marine sediment	no hazard identified
Soil	1000 mg/kg soil dw

Calcium sulphate dihydrate

None known

## **8.2 Exposure controls**

### **Appropriate Engineering Measures**

Respirable dust should be monitored regularly to determine worker exposure levels. Exposure levels in excess of appropriate exposure limits must be reduced by all feasible engineering controls, including (but not limited to), ventilation, process enclosure, and/or enclosed employee workstations.

Activities that generate dust from hardened product require the use of general ventilation, local exhaust, and/or wet suppression methods adequate to maintain exposures below appropriate exposure limits.

### **Individual protection measures, such as personal protective equipment:**

#### Eye and face protection:

Safety glasses with side shields should be worn as minimum protection. Dust goggles should be worn when excessively (visible) dusty conditions are present or are anticipated. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).

#### Skin protection:

Hand protection: Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Other skin protection: When handling wet concrete, wear impervious gloves and boots. To avoid contamination of face, lips, and ingestion, wash hands before handling food or smoking. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Under normal working conditions, no respiratory protection is needed for unhardened concrete. Ventilation: Local exhaust or general ventilation adequate to maintain exposures below appropriate exposure limits. Where protection from nuisance levels of dusts are desired, use type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).

Thermal hazards: None known.

**Environmental exposure controls:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1 Information on basic physical and chemical properties**

Appearance:	Solid / powder
Colour:	Grey.
Odour:	Odourless
Odour threshold:	No data available
pH:	12 – 13
Melting point/Freezing point:	No data available
Initial boiling point/boiling range:	
Flash point:	Not applicable
Evaporation rate:	No data available
Flammability (solid, gas):	Not flammable
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density (air=1):	No data available
Relative Density:	2.3 – 3.1

Solubility(ies): Slightly soluble  
 Partition coefficient Octanol/Water: No data available  
 Auto-ignition temperature: No data available  
 Decomposition temperature: No data available  
 Viscosity: No data available  
 Explosive properties: Not expected to be explosive.  
 Oxidising properties: Not expected to be oxidising.

**9.2 Other information:**

No further data available

**SECTION 10: STABILITY AND REACTIVITY**
**10.1 Reactivity**

Not expected to be reactive.

**10.2 Chemical stability**

Stable under normal ambient and anticipated conditions of use.

**10.3 Possibility of hazardous reactions**

Hazardous reactions not anticipated under normal temperature and pressures.

**10.4 Conditions to avoid**

Keep away from water. Creates an alkaline (caustic) solution (pH >11). See Sections 5 and 7 for additional information.

**10.5 Incompatible materials**

None known.

**10.6 Hazardous Decomposition products:**

None known.

**SECTION 11: TOXICOLOGICAL INFORMATION**
**11.1 Information on toxicological effects**
**Acute toxicity:**

Product/ingredient name	Test	Species	Dose
<b>Clinker</b>	LD50 Oral	Rat	No data available
	LD50 Dermal	Rabbit	No data available
	LC50 Inhalation	Rat	No data available
<b>Limestone</b>	LD50 Oral	Rat	> 2000 mg/kg bw
	LD50 Dermal	Rabbit	> 2000 mg/kg bw
	LC50 Inhalation	Rat	> 3 mg/L (4h)
<b>Granulated blast furnace slag</b>	LD50 Oral	Rat	> 2000 mg/kg bw
	LD50 Dermal	Rabbit	No data available
	LC50 Inhalation	Rat	> > 5234 mg/m3 (4h)
<b>Calcium sulphate dihydrate</b>	LD50 Oral	Rat	No data available
	LD50 Dermal	Rabbit	No data available
	LC50 Inhalation	Rat	No data available

**Skin corrosion/irritation:**

This product is expected to cause severe skin burns.



<b>Serious eye damage/eye irritation:</b>	This product is expected to cause serious damage to eyes.
<b>Respiratory or skin sensitisation:</b>	May cause respiratory irritation. May cause an allergic skin reaction.
<b>Germ cell mutagenicity:</b>	Not expected to cause germ cell mutagenicity.
<b>Carcinogenicity:</b>	Not expected to cause carcinogenicity.
<b>Reproductive toxicity:</b>	Not expected to cause reproductive toxicity.
<b>STOT - Single exposure:</b>	May cause specific target organ toxicity (respiratory system) from a single exposure.
<b>STOT - Repeat exposure:</b>	May cause damage to organs (respiratory system) through prolonged or repeated exposure.
<b>Aspiration hazard:</b>	Not expected to be an aspiration hazard.

**SECTION 12: ECOLOGICAL INFORMATION**
**12.1 Toxicity:**

Substance name	Toxicity to fish / other aquatic invertebrates
<b>Clinker</b>	None known
<b>Limestone</b>	Fish LC50 - Oncorhynchus mykiss (rainbow trout); LC 50 >100 mg/l; 96 h Invertebrates LC50 - Daphnia magna (Water flea); LC50 >100 mg/l 48 h Algae EC50 - Desmodesmus subspicatus (green algae); EC50; 72 h; > 14 mg/l
<b>Granulated blast furnace slag</b>	Fish LC50 - Leuciscus idus - > 1000 mg/l - 96 h Invertebrates EC50 - Daphnia magna (Water flea); EC50 >1000 mg/l 48 h Algae IC50 - Scenedesmus suspicatus (green algae); IC50; 72 h; > 100 mg/l
<b>Calcium sulphate dihydrate</b>	None known

**12.2 Persistence and Degradability:**

Not determined.

**12.3 Bioaccumulative potential:**

No data available.

**12.4 Mobility in soil:**

No data available.

**12.5 Results of PBT and vPvB assessment:**

No data available.

**12.6 Other adverse effects:**

None known.

**SECTION 13: DISPOSAL CONSIDERATIONS**
**13.1 Waste treatment methods:**

**Product**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Untreated waste should not be released to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe manner.

**Contaminated packaging**

Contaminated packaging may contain traces of the product. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff, and contact with soil, waterways, drains and sewers.

**SECTION 14: TRANSPORT INFORMATION**
**International transport regulations**
**14.1 UN number:**
ADR/RID: Not applicable

IMDG: Not applicable

IATA: Not applicable

**14.2 Proper shipping name:**
ADR/RID: Not dangerous for transport

IMDG: Not dangerous for transport

IATA: Not dangerous for transport

**14.3 Transport hazard class(es)**
ADR/RID: n/a

IMDG: n/a

IATA: n/a

**14.4 Packing group**
ADR/RID: n/a

IMDG: n/a

IATA: n/a

**14.5 Environmental hazard**

Marine Pollutant: No

**14.6 Special precautions for user**

No data available

**14.7 Transport to bulk according to Annex II of MARPOL and the IBC Code**

Not applicable

**Section 15: REGULATORY INFORMATION**
**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of:

EU Commission Regulation (EU) 2015/830 (Reach)

EU Regulation (EC) No 1272/2008 (CLP)

EINECS: All components in this product are listed on the European Inventory of Existing Chemical Substance

**15.2 Chemical safety assessment**

For this product a chemical safety assessment was not carried out on this product.

**Section 16: OTHER INFORMATION**
**Full text of H & P-Statements referred to under sections 2 and 3.**

Skin Corr	Skin Corrosion
Skin Irrit	Skin irritation
Eye Dam	Serious eye damage
STOT SE	Specific Target Organ Toxicity - Single Exposure

H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H335	May cause respiratory irritation

**Full text of P-Statements referred to under sections 2.**

P260	Do not breathe dust / fume / gas / mist / vapours / spray.
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection / face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	If INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	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.
P312	Call a POISON CENTER / doctor if you feel unwell.
P321	Specific treatment (see section 4 to 8 on the SDS and any additional information on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/containers to an approved disposal site in accordance with local/regional/national/international regulations.

**Training advice:** Before using/handling the product one must read carefully present SDS.

**Abbreviations and acronyms:**

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European)
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
CLP:	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL:	Derived No Effect Level
EC50:	Half maximal effective concentration
EINECS:	European Inventory of Existing Commercial Chemical Substances
EU:	European Union
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals
IATA:	International Air Transport Association
IBC:	International Bulk Code
IMDG:	International Maritime Code for Dangerous Goods

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LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
MARPOL:	International Convention for the Prevention of Pollution from Ships
PBT:	Persistent, Bioaccumulative and Toxic
PNEC:	Predicted No Effect Level
REACH:	Registration, Evaluation, Authorisation and Restriction of Chemicals
SCL:	Specific Concentration Limits
STEL:	Short Term Exposure Limit
TWA:	Time Weighted Average
UN:	United Nations
VPvB:	Very Persistent and very Bioaccumulative
WEL:	Workplace Exposure Limit

**Document history**

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**DISCLAIMER:** To the best of our knowledge the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.