



SAFETY DATA SHEET

according to Regulation 1907/2006/EC, Article 31

Printing Date : 29/11/18

Revision : 29/11/18

Version number 1

TRADE NAME : SARIP 678

1: IDENTIFICATION OF THE SUBSTANCE\ PREPARATION AND OF THE COMPANY UNDERTAKING:

-1.1 Product identifier

Trade name: SAPIR 678

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

· **Sector of Use** for Industrial Use Only

-Application of the substance / the mixture:

Repair of concrete.

1.3 Details of the supplier of the safety data sheet

· **Manufacturer/Supplier:**

Company: A.Z. MARKETING L.T.D.

Address: HaBonim 13 st. Kiryat Gat, Israel

Telephone: 972-8-9150190 ; Fax: 972-8-9240091

www.azmarketing.co.il

Further information obtainable from: Product safety department.

1.4 Emergency telephone number: 972-8-9150190

2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS05 Corrosive

Eye Damage 1 H318 Causes serious eye damage



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GHS07 Irritant



GHS08 Human Health

*Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.*

2.2 Label Elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation

Hazards Pictograms: GHS05, GHS07, GHS08

Signal Word: *Danger*

Hazard-determining components of labelling:

Cement, portland, chemicals calcium oxide, quartz (SiO₂), Sulphoaluminate Clinker, Citric Acid

Hazard statements

*H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H373 May cause damage to the lung through prolonged or repeated exposure*

Precautionary statements

Prevention:

*P102: Keep out of reach of children
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.*



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

P280 Wear protective gloves / eye protection / face protection.

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

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.

P321 Specific treatment (see on this label).

Response:

P314 Get medical advice/attention if you feel unwell.

P261+P304+P340+P312: Avoid breathing dust. IN CASE OF INHALATION OF DUST: get victim into the fresh air and keep still in a position comfortable for breathing if they feel unwell, contact a poison control center or doctor.

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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

2.2.2 According to Directive 67/548/EEC & Directive 1999/45/EC

Hazard Symbol



Irritant

Risk Phrases

R36: Irritating to eye

Safety Phrases

S26: Avoid contact with eyes. In case of contact with eyes, rinse, immediately with plenty of water and seek medical advice

2.3 Other hazards

-Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable



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3 COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Chemical characterization: Mixtures

- **Description:** Mixture of substances listed below with nonhazardous additions
- **Dangerous components:**

Ingredients	CAS №	EINECS №	Concentration, wt. %
Cement, portland, chemicals	65997-15-1	266-043-4	30-50
Calcium Oxide	1305-78-8	215-138-9	1-3%
Quartz (SiO ₂)	14808-60-7	238-878-4	>30
Sulphoaluminate Clinker	65997-15-1	266-043-4	10-20
Citric Acid	77-92-9	201-069-1	0.1-0.5
Sodium polynaphthalene-methanesulfonate	9084-06-4	618-665-6	>0.5

Additional information:

For the wording of the listed hazard phrases refer to section 16.

-Portland cement clinker:

Consisting of 4 main clinker phases, namely tri- and dicalcium-silicates (3CaO.SiO₂ and 2CaO.SiO₂), tricalcium-aluminate (3CaO.Al₂O₃) and tetracalcium-aluminoferite (4CaO.Al₂O₃.Fe₂O₃).

4: FIRST AID MEASURES:

4.1 Description of first aid measures

- **General Information:** Consult a physician. Show this safety data sheet to the doctor in attendance.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints

- **After skin contact:** Rinse and then wash skin with water and soap.

· **After eye contact:**

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention.

· **After swallowing:** Do NOT induce vomiting. Refer for medical attention.

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

No further relevant information available.

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

No further relevant information available.



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5: FIRE FIGHTING MEASURES

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture**

Clinkers are non-combustible and non-explosive and will not facilitate or sustain the combustion of other materials

Specific hazards:

Explosive dust concentrations. Try to avoid dust forming.

Hazardous decomposition products may be formed under fire conditions (see section 10).

- **5.3 Advice for firefighters**

· **Protective equipment:**

Portland cement is not flammable

Poses no fire-related hazards

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

.No available information for special protective equipment for fire fighters

6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal protection: particulate filter respirator adapted to the airborne concentration of the substance.

See Section 8

- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

- **6.3 Methods and material for containment and cleaning up:**

Do not sweep. Use dry cleanup methods such as vacuum clean-up over vacuum extraction, which do not cause airborne dispersion.

- **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7.0 HANDLING AND STORAGE

- 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

No special precautions are necessary if used correctly.

Follow the recommendations as given under Section 8.

To clean up dry Portland cement see Subsection 6.3.

- **Information about fire - and explosion protection:** Portland cement is not flammable



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Advice on safe handling:

For personal protection see section 8. Avoid contact with skin and eyes. Avoid inhalation of dust. Avoid exposure – obtain special instructions before use.

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

· Information about storage in one common storage facility:

Dry. Well closed. Separated from strong acids.

Portland cement should be stored under waterproof, dry (i.e. with internal condensation minimized) conditions, clean and protected from contamination.

Do not use aluminium containers due to incompatibility of the materials.

Requirements for storage areas and containers:

Keep container tightly closed in a dry and well-ventilated place. Store in fabric or polypropylene bags with polyethylene liner; multiwall paper bags with polyethylene liner; big bags with polyethylene liner.

· Further information about storage conditions: Protect from moisture.

Advice on common storage:

Keep away from food, drink and animal feeding stuffs. Incompatible with acids and bases. Do not store together with oxidizers.

· 7.3 Specific end use(s) No further relevant information available.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

· Additional information about design of technical facilities:

Use: Industrial manufacture/formulation of hydraulic building and construction materials

.No further data; see item 7.

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
65997-15-1 Cement, portland, chemicals	
TLV MAK	(respirable fraction): 1 mg/m ³ , as TWA; A4 (not classifiable as a human carcinogen). carcinogen category: 3B
1305-78-8 Calcium oxide	



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TLV	2 mg/m ³ , as TWA.
MAK	(inhalable fraction): 1 mg/m ³ ; peak limitation category: I(2); pregnancy risk group: C.
EU-OEL	1 mg/m ³ as TWA; 4 mg/m ³ as STEL
14808-60-7 Quartz (SiO₂)	
TLV	Long term value 0.1mg/m ³ ; respirable fraction

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product

- **Personal protective equipment:**

- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.

- **Respiratory protection:**

When a person is potentially exposed to dust levels above exposure limits, use appropriate respiratory protection. The type of respiratory protection should be adapted to the dust level

- **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Wear safety goggles.

- **Body protection:** Protective clothing



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9: PHYSICAL AND CHEMICAL PROPERTIES

· 9.1 Information on basic physical and chemical properties

General Information

Appearance

Form: Fine Powder
Colour: Light Grey
Odour: Odorless
· Odour threshold: Not determined

pH-value: >12.5 (water solution)

Change in condition

Melting point/freezing point:

Undetermined.

Initial boiling point and boiling range:

>1000 ° C

· Flash point:

Not determined

· Flammability (solid, gas):

Not determined.

· Decomposition temperature:

Not determined.

· Auto-ignition temperature:

Product is not selfigniting.

· Explosive properties:

Product does not present an explosion hazard.

· Explosion limits:

Lower:

Not determined.

Upper:

Not determined.

· Vapour pressure:

Not applicable.

· Density:

1.2-1.8

· Relative density

Not determined.

· Vapour density

Not applicable.

· Evaporation rate

Not applicable.

· Solubility in / Miscibility with water:

0.1%-1% (Low solubility)

· Partition coefficient: n-octanol/water:

Not determined.

· Viscosity:

Dynamic:

Not applicable.

Kinematic:

Not applicable.

· 9.2 Other information

No further relevant information available.



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10 : STABILITY AND REACTIVITY

10.1 Reactivity

When mixed with water, the mixture hardens to form a stable mass that does not react with the environment. The dry mixture is chemically stable and compatible with the majority of other construction materials.

10.2 Chemical stability

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions**

Reacts with acids, aluminium metals and ammonium salts.

Reacts slowly with water forming hardened hydrated compounds, releasing heat and producing a strong alkaline solution.

· **10.4 Conditions to avoid**

Humid conditions during storage may cause lump formation and loss of product quality.

· **10.5 Incompatible materials:** Acids, ammonium salts, aluminium or other non-noble metals.

· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.



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11: TOXICOLOGICAL INFORMATION

- **11.1 Information on toxicological effects**
 - Acute toxicity based on available data, the classification criteria are not met.
 - **Primary irritant effect:**
 - **Skin corrosion/irritation**
Causes skin irritation.
 - **Serious eye damage/irritation**
Causes serious eye damage.
 - **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
 - **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
 - **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.**

12: ECOLOGICAL INFORMATION

- **12.1 Toxicity**
 - **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
 - **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.



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13: DISPOSAL CONSIDERATIONS

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

· **Recommendation:** *Disposal must be made according to official regulations.*

14 : TRANSPORT INFORMATION

14.1 UN-Number

Portland cement is not covered by the international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID); no classification is required.

No special precautions are needed apart from those mentioned under Section 8.

14.2 UN proper shipping name

Void

· 14.3 Transport hazard class(es)

Not applicable

· 14.4 Packing group

Not applicable

· 14.5 Environmental hazards:

Not applicable

· 14.6 Special precautions for user

Not applicable

· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

15 REGULATORY INFORMATION

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



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· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms** GHS05, GHS0, GHS08

· **Signal word** Danger, Warning

· **Hazard-determining components of labelling:**

Cement, Portland chemicals, calcium oxide, quartz(SiO₂)

· **Hazard statements**

H315: Causes skin irritation.

H318: Causes serious eye damage.

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation

H373: May cause damage to the lung through prolonged or repeated exposure

· **Precautionary statements**

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 / eye protection / face protection.

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

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.

P314 Get medical advice/attention if you feel unwell.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.



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16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H373 May cause damage to the lung through prolonged or repeated exposure

· **Department issuing SDS:** Product safety department.

· **Contact:**

Company: A.Z. MARKETING L.T.D.

Address: HaBonim 13 st. Kiryat Gat, Israel

Telephone: 972-8-9150190; Fax: 972-8-9240091

www.azmarketing.co.il

· **Abbreviations and acronyms:**

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1B: Skin sensitisation – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3



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