



## SAFETY DATA SHEET

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

Product name: **Sapir - 690**  
Application: Repair of Concrete  
Company: A.Z. MARKETING L.T.D.  
Address: HaBonim 13 st. Kiryat Gat, Israel  
Telephone: +97289150190 ; Fax: +97289240091

### 2 : COMPOSITION \ Data on components

**DESCRIPTION:** This product consists of a heterogeneous mixture of hydraulic cement and sand. The major compounds are:

$3\text{CaO} \cdot \text{SiO}_2$	Tricalcium Silicate	CAS #12168-85-3
$2\text{CaO} \cdot \text{SiO}_2$	Dicalcium Silicate	CAS #10034-77-2
$3\text{CaO} \cdot \text{Al}_2\text{O}_3$	Tricalcium Aluminate	CAS #12042-78-3
$4\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{Fe}_2\text{O}_3$	Tetra calcium aluminoferrite	CAS #12068-35-8
$\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$	Calcium Sulfate dihydrate (Gypsum)	CAS #7778-18-9 (CAS #13397-24-5)
$\text{SiO}_2$	Silica Sand	CAS #14808-60-7

### 3 : HAZARDS IDENTIFICATION

COMPONENT	OSHA PEL	ACGIH TLV-TWA	NIOSH REL
<b>Hydraulic Cement</b>	5 mg respirable dust/m <sup>3</sup> 15 mg total dust/m <sup>3</sup>	10 mg total dust/m <sup>3</sup>	--
<b>Calcium sulfate</b> (CAS #7778-18-9) [Gypsum (CAS #13397-24-5)]	5 mg respirable dust/m <sup>3</sup> 15 mg total dust/m <sup>3</sup>	10 mg total dust/m <sup>3</sup>	
<b>Calcium carbonate</b> (CAS #1317-65-3)	5 mg respirable dust/m <sup>3</sup> 15 mg total dust/m <sup>3</sup>	10 mg total dust/m <sup>3</sup>	
<b>Magnesium oxide</b> (CAS #1309-48-4)	15 mg total dust/m <sup>3</sup>	10 mg total dust/m <sup>3</sup>	
<b>Calcium oxide</b> (CAS #1306-78-8)	5 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	
<b>Crystalline silica</b> (CAS #14808-60-7)	<u>10 mg of respirable dust/m<sup>3</sup></u> % SiO <sub>2</sub> + 2	0.5 mg respirable quartz/m <sup>3</sup>	0.05 mg respirable quartz dust/m <sup>3</sup>



#### 4 : FIRST AID MEASURES

**EYES:** Immediately flush eye thoroughly with water. Continue flushing eye for at least 15 minutes, including under lids, to remove all particles. Call physician immediately.

**SKIN:** Wash skin with cool water and pH-neutral soap or a mild detergent. Seek medical treatment if irritation or inflammation develops or persists. Seek immediate medical treatment in the event of burns.

**INHALATION:** Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Seek medical help if coughing and other symptoms do not subside. Inhalation of large amounts of this product requires immediate medical attention.

**INGESTION:** Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately.

#### 5 : FIRE FIGHTING MEASURES

**FLASH POINT:** None **LOWER EXPLOSIVE LIMIT:** None

**AUTO IGNITION TEMPERATURE:** Not combustible **UPPER EXPLOSIVE LIMIT:** None

**FLAMMABLE LIMITS** Not applicable **SPECIAL FIRE FIGHTING PROCEDURES:** None

**EXTINGUISHING MEDIA:** Not combustible **UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

**HAZARDOUS COMBUSTION PRODUCTS:** None

#### 6 : ACCIDENTAL RELEASE MEASURES

Contain material to prevent contamination of soil, surface water or ground water. Use dry clean-up methods that do not disperse dust into the air or entry into surface water. Material can be used if not contaminated. Place in an appropriate labeled container for disposal or use. Avoid inhalation of dust and contact with skin and eyes.

#### 7: HANDLING AND STORAGE

**HANDLING AND STORAGE** Keep dry until used. Handle and store in a manner so that airborne dust does not exceed applicable exposure limits. Use adequate ventilation and dust collection.



## 8 : PERSONAL PROTECTION

**RESPIRATORY PROTECTION:** Use local exhaust or general dilution ventilation to control dust levels below applicable exposure limits. Minimize dispersal of dust into the air.

If local or general ventilation is not adequate to control dust levels below applicable exposure limits or when dust causes irritation or discomfort, use MSHA/NIOSH approved respirators.

**EYE PROTECTION:** Wear safety glasses with side shields or goggles to avoid contact with the eyes. In extremely dusty environments and unpredictable environments, wear tight-fitting unvented or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when handling cement or cement containing products.

**SKIN PROTECTION:** Wear impervious abrasion- and alkali-resistant gloves, boots, long-sleeved shirt, long pants or other protective clothing to prevent skin contact. Promptly remove clothing dusty with dry product or clothing dampened with moisture mixed with the product, and launder before re-use. If contact occurs, wash areas contacted by material with pH neutral soap and water.

## 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE/ODOR:</b>	Gray, odorless	<b>PHYSICAL STATE:</b>	Solid (Powder mixed with sand.)
<b>BOILING POINT:</b>	> 1000°C	<b>MELTING POINT:</b>	> 1000°C
<b>VAPOR PRESSURE:</b>	Not applicable	<b>VAPOR DENSITY:</b>	Not applicable
<b>pH (IN WATER) (ASTM D 1293-95)</b>	12 to 13	<b>SOLUBILITY IN WATER:</b>	Slightly soluble (0.1% to 1.0%)

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1.0):** 2.5 – 2.8      **EVAPORATION RATE:** None

## 10: STABILITY

**STABILITY:** Product is stable. Keep dry until used.

**CONDITIONS TO AVOID:** Unintentional contact with water. Contact with water will result in hydration and produces (caustic) calcium hydroxide.

**INCOMPATIBILITY:** Wet product is alkaline. As such, it is incompatible with acids, ammonium salts and aluminum metal.

**HAZARDOUS DECOMPOSITION:** Will not occur.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11: TOXICOLOGICAL INFORMATION

See Section 5 for Hazard Identification. No recognized unusual toxicity to plants and animals.

Conditions aggravated by exposure: Eye disease, Skin disorders and Chronic Respiratory conditions.

## 12: ECOLOGICAL INFORMATION

**DISPOSAL:** DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/ Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.



### 13: DISPOSAL CONSIDERATIONS

#### Waste treatment methods

#### Recommendation:

**Must not be disposed of 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** - This product is not hazardous under U.S. DOT or TDG regulations.

### 15: REGULATORY INFORMATION

**Status under US OSHA Hazard Communication Rule 29 CFR 1910.1200:**

This product is considered a hazardous chemical under this regulation and should be included in the employer's hazard communication program.

**Status under CERCLA/Superfund, 40 CFR 117 and 302:**

Not listed.

**Hazard Category under SARA (Title III), Sections 311 and 312:**

This product qualifies as a hazardous substance with delayed health effects.

**Status under SARA (Title III), Section 313:**

Not subject to reporting requirements under Section 313.

**Status under TSCA (as of May 1997):**

Some substances in this product are on the TSCA inventory list.

**Status under the Federal Hazardous Substances Act:**

This product is a hazardous substance subject to statutes promulgated under the subject act.

**Status under California Proposition 65:**

This product contains crystalline silica, a substance known to the State of California to cause cancer. This product also may contain trace amounts of heavy metals known to the State of California to cause cancer, birth defects or other reproductive harm.

### 16: OTHER INFORMATION

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. It is the user's obligation to determine the conditions of safe use of this product.