

**Section 1: Name of the substance and information on the manufacturer****1.1 product identifier**

Chemical Type: Mixture

Trade name: BETOMIX-ITH

**1.2 Product Areas**

Fields of application: concrete and reinforced concrete water proofing

**1.3. Detailed information on the supplier in the safety data sheet**

Institute of Technical Chemistry of Ural Branch of RAS ,  
Perm, Ak. Korolev St., 3, RUSSIA, 614013,  
Phone:+7 (342) 237-82-90  
e-mail: [info@itcras.ru](mailto:info@itcras.ru)

**1.4. Emergency phone number**

Country	Consultative body, enterprise	The address	Emergency telephone
Russia	Institute of Technical Chemistry of Ural Branch of RAS	Perm, Ak. Korolev St., 3, RUSSIA, 614013	+7 (342) 237-82-90 +7 912-061-04-50

**Section 2: Hazard Identification****2.1 Classification of a substance or mixture***Classification In Accordance With GHS (5th Edition)*

Skin Irrit. 2: H315	Causes skin irritation.
Eye Dam. 1: H318	Causes serious eye damage.
Skin Sens. 1: H317	May cause an allergic skin reaction.
STOT SE 3: H335	May cause respiratory irritation.

**2.2 Label elements**

In Accordance with GHS (5th Edition)

**DANGER****2.3 Hazard statements**

- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H317 May cause an allergic skin reaction.
- H335 May cause respiratory irritation.

**2.4 Precautionary statements**

- P280 Wear protective gloves / protective clothing / eye protection / face protection & approved duct masks.
- P260 Do not breathe dust.
- P264 Wash thoroughly after handling.

**2.5 Responsive precautionary statements**

- P260 Do not breathe dust
- P264 Wash thoroughly after handling

P280	Wear protective gloves / protective clothing / eye protection / face protection.
P305 + P351 + P338	IF IN EYES: Remove contact lenses if any. Rinse cautiously with water for several minutes.
P310	Immediately call a POISON CENTRE or doctor / physician.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

### SECTION 3: Composition (information on components)

#### 3.1 Substances

Not applicable

#### 3.2 mixtures

Title	Product id	%
Cement	CAS-No: 65997-15-1	65-80%
GRT-17	Trade Secret	10-35%
Calcium magnesium hydroxide (CaMg(OH) <sub>4</sub> )	CAS-No: 39445-23-3	1.5-6%
Calcium magnesium hydroxide oxide (CaMg(OH) <sub>2</sub> O)	CAS-No: 58398-71-3	1.5-6%
Alkaline Earth Compounds (calcium dihydroxide)	CAS-No: 1305-62-0	1.0-2%

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

First aid after inhalation:	Move the person into fresh air.
First aid after skin contact:	Wash the exposed area with cool, clean water
First aid after eye contact:	Remove contact lenses if any. Rinse immediately and thoroughly with water, keeping your eyes wide open.
First aid after swallowing:	Wash out mouth with water. Give plenty of water to drink. Get immediate medical attention.

#### 4.2. Most important acute or delayed symptoms and effects

No additional information

#### 4.3 Indications for immediate medical attention or specialized treatment

Symptomatic treatment

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

BETOMIX-ITH is not flammable and explosive.

#### 5.2 Special hazards arising from the product

BETOMIX-ITH poses no special hazards.

#### 5.3 Firefighting instructions

Fire defense : no special measures for firefighting are required

### SECTION 6: Measures to prevent and eliminate emergency and emergency situations and their consequences

#### 6.1. Personal precautions

##### 6.1.1 personnel not trained in emergency situations

Emergency events : Use protective clothing as referred in Section 8. Avoid contact with skin and eyes.

##### 6.1.2 Rescue services

Protective equipment : Recommended personal protective equipment. Wear appropriate protective clothing, gloves and goggles or a face mask.

#### 6.2. Environmental measures

Do not allow product into drains and water courses.

**6.3. Methods and material for containment and cleaning up**

To limit distribution	: Collect spilled material in a container.
Cleaning methods	: Clean the dust with an industrial vacuum cleaner or wipe up the dust by mopping. If the product has become wet, clean up and place in watertight container. Allow material to dry and solidify before disposal.

**6.4. Link to other sections**

See section 13 for more information.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Precautions for safe handling	: Provide good ventilation in the workplace. Use personal protective equipment. Avoid dust formation. Avoid contact with skin from prolonged and repeated contact.
Hygiene measures	: Do not eat, drink or smoke when handling or applying the product. Always wash your hands after handling the product.

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

Technical Activities	: Comply with applicable law. Open containers to prevent spillage must be properly sealed and upright. Provide adequate ventilation, especially indoors.
Storage conditions	: Store in a dry place. Protect from moisture. Keep container tightly closed in a well-ventilated area.
Incompatible Products	: Strong acids. Strong bases. Strong oxidizing agents.
Incompatible conditions	: Extremely high temperatures.
Sources of heat and ignition	: The product is not flammable and explosive. No special measures are required.
Mixed Storage Information	: Keep the product away from food, drinks and animal feed.

**7.3. Specific End Use Applications**

Lack of detailed information.

**SECTION 8: Exposure controls / Personal protection****8.1. Control parameters**

P260 Do not breathe dust.

P401 Store in original containers.

**8.2. Limitation and control of exposure**

Appropriate technical controls	: It does not require special or specific measures. Follow the general safety and industrial hygiene rules.
Hand protection	: Protective gloves EN 374
Eye protection	: Protective glasses. Wear safety glasses in place if excessive dust EN 166
Skin and body protection	: Wear appropriate protective clothing.
Respiratory protection	: Use appropriate respiratory protection in case of insufficient ventilation.
Environmental impact control	: Avoid release to the environment.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

State of aggregation	: Dry powder
Colour	: Grey with white inclusions
Smell	: Faint smell
Odor threshold	: No data available
pH	: 9-13 (10% solution in water)

Relative evaporation rate (butyl acetate = 1)	: No data
Melting/Freezing point	: No data available
Boiling point	: No data available
Auto ignition temperature	: Not applicable
Decomposition temperature	: Alkaline earth compounds: 580C
Flammability (solid, gas)	: Not flammable
Relative vapor density at 20C	: No data available
Relative density	: 0.91 g / cm <sup>3</sup>
Solubility	: Powder forms slurry with water, hardens over time.
Explosive properties	: The product is not explosive.
Oxidizing properties	: The product does not pose a risk of oxidation.

## 9.2 Other information

No additional information

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product is of normal use and does not react during storage and transportation conditions.

### 10.2. Chemical stability

It is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No hazardous reactions are known under normal conditions of use.

### 10.4 Conditions to Avoid

Avoid humid environments during storage.

### 10.5 Incompatible materials

Strong acids.

### 10.6 Hazardous decomposition products

None known.

## SECTION 11: Toxicological information

### 11.1 Toxicological information

Acute toxicity : Not classified

BETOMIX-ITH	
Rabbit dermal LD50	> 2,000 mg / kg
Rat oral LD50	> 2,000 mg / kg
Rat inhalation LC50	No data available

Eye irritation : Direct contact with product may cause corneal damage by mechanical stress, immediate or delayed irritation. Direct contact either in dry or wet form may cause effects ranging from moderate eye irritation to chemical burns.

Sensitization : Prolonged and repeated skin contact with Alkaline earth products may cause dermatitis.

Mutagenicity :  
None of the individual substances in this mixture are classified as mutagenic.

Carcinogenicity : This product contains silica sand and this form of silica is not classified as carcinogenic due to its large particle size.

Reproductive toxicity : None of the individual substances in this mixture are classified as reproductive toxicants.

### SECTION 12: Environmental impact

#### 12.1 Toxicity

Ecology : Do not allow the material to enter water course. If water is contaminated inform the relevant authorities immediately. The addition of a significant amount of cementitious products to water may cause a rise in the pH value and therefore may be toxic to aquatic life under certain circumstances.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

#### 12.2. Degradability

No additional information

#### 12.3 Bioaccumulative potential

BETOMIX-ITH	
Bioaccumulation potential	None of the substances in this mixture are known to bioaccumulate.

#### 12.4 Mobility in the soil

BETOMIX-ITH	
Soil mobility	Not known.

#### 12.5. The results of the assessment of the characteristics of sustainability, biological accumulation and toxicity

This mixture does not contain any substances that are assessed to be PBT or vPvB.

#### 12.6 Other adverse effects

Other side effects : No additional information

### Part 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste treatment technology : Avoid creation of airborne and respirable dust when disposing of product.

##### *Product – Unused Residue or Dry Spillage*

Pick up dry and put in containers. In case of disposal, harden with water to avoid dust creation. Dispose of all materials in accordance with current local regulations / legislation.

##### *Product – Slurries*

Allow to harden. Avoid entry into sewage and drainage systems or into bodies of water and dispose of as indicated for hardened product.

##### *Product – After Addition of Water, Hardened*

Dispose of all materials in accordance with current regulations / legislation. Avoid entry into sewage and drainage systems or into bodies of water.

### SECTION 14: Transport information

The product is not classified as hazardous for transport purposes.

### SECTION 15: Regulatory Information

#### 15.1. Safety, health and environmental regulations / specific legal requirements for the substance or mixture

##### 15.1.1. EC regulations

Lack of detailed information

##### 15.1.2. National regulations

Lack of detailed information

##### 15.1.3. Substance safety assessment

Lack of detailed information

**SECTION 16: Additional information**

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