

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : OSMOCEM TOP Comp. A  
Revision date : 08.08.2019  
Print date : 08.08.2019

Version : 1.0.0

## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

### 1.1 Product identifier

OSMOCEM TOP Comp. A

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

#### Relevant identified uses

Building and construction preparations: Osmotic cementitious mortar component for protective coatings.

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

#### Supplier (manufacturer/importer/only representative/downstream user/distributor)

AZICHEM Srl

**Street :** Via G. Gentile16/A

**Postal code/city :** 46044 Goito (MN)

**Telephone :** +390376604185/604365

**Telefax :** +39 0376 604398

**Information contact :** info@azichem.com

### 1.4 Emergency telephone number

Centro Antiveleni di Milano 02 66101029 (CAV Ospedale Niguarda Ca' Granda -Milano) (24h)

Centro Antiveleni di Pavia 0382 24444 (CAV IRCCS Fondazione Maugeri - Pavia)

Centro Antiveleni di Bergamo 800 883300 (CAV Ospedali Riuniti - Bergamo)

Centro Antiveleni di Firenze 055 7947819 (CAV Ospedale Careggi - Firenze)

Centro Antiveleni di Roma 06 3054343 (CAV Policlinico Gemelli - Roma)

Centro Antiveleni di Roma 06 49978000 (CAV Policlinico Umberto I - Roma) Centro Antiveleni di Napoli 081 7472870 (CAV Ospedale Cardarelli - Napoli)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

STOT SE 3 ; H335 - STOT-single exposure : Category 3 ; May cause respiratory irritation.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

##### Hazard pictograms



Corrosion (GHS05) · Exclamation mark (GHS07)

##### Signal word

Danger

##### Hazard components for labelling

CEMENT, PORTLAND, CHEMICALS ; CAS No. : 65997-15-1

FLUE DUST ; CAS No. : 68475-76-3

##### Hazard statements

H318 Causes serious eye damage.

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H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.

### Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of water/....  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
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  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

### 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

CEMENT, PORTLAND, CHEMICALS ; EC No. : 266-043-4; CAS No. : 65997-15-1

Weight fraction :  $\geq 40 - < 45$  %

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 STOT SE 3 ; H335

FLUE DUST ; REACH registration No. : 01-2119486767-17 ; EC No. : 270-659-9; CAS No. : 68475-76-3

Weight fraction :  $\geq 1 - < 3$  %

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 STOT SE 3 ; H335

#### Additional information

Full text of H- and EUH-statements: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

No special measures are necessary.

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

On contact with moist skin may cause thickening, cracking and cracking of the skin. Prolonged contact in combination with existing abrasions can cause burns. Direct contact with the product may cause corneal injury due to mechanical stress, immediate or delayed irritation or inflammation. The direct contact with large quantities of product dry or with projections of wet product can cause effects ranging from irritation ocular moderate (eg. Conjunctivitis or blepharitis) to chemical burns and blindness. Dust may irritate throat and respiratory system. Coughing, sneezing and panting may occur as a result of exposure above the occupational exposure limits. May cause an allergic skin reaction.

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

None

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

None

### 5.3 Advice for firefighters

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None

## SECTION 6: Accidental release measures

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

None

### 6.2 Environmental precautions

None

### 6.3 Methods and material for containment and cleaning up

None

### 6.4 Reference to other sections

None

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

None

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

#### Hints on joint storage

Storage class : 13

Storage class (TRGS 510) : 13

### 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### DNEL/DMEL and PNEC values

##### DNEL/DMEL

Limit value type : DNEL worker (local) ( CEMENT, PORTLAND, CHEMICALS ; CAS No. : 65997-15-1 )  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 1 mg/m<sup>3</sup>

##### PNEC

Limit value type : PNEC aquatic, freshwater ( FLUE DUST ; CAS No. : 68475-76-3 )  
Limit value : 28 mg/m<sup>3</sup>  
Limit value type : PNEC aquatic, intermittent release ( FLUE DUST ; CAS No. : 68475-76-3 )  
Limit value : 282 mg/m<sup>3</sup>  
Limit value type : PNEC aquatic, marine water ( FLUE DUST ; CAS No. : 68475-76-3 )  
Limit value : 3 mg/m<sup>3</sup>  
Limit value type : PNEC sediment, freshwater ( FLUE DUST ; CAS No. : 68475-76-3 )  
Limit value : 0,875 mg/kg  
Limit value type : PNEC sediment, marine water ( FLUE DUST ; CAS No. : 68475-76-3 )  
Limit value : 0,088 mg/kg  
Limit value type : PNEC soil, freshwater ( FLUE DUST ; CAS No. : 68475-76-3 )  
Limit value : 5 mg/kg  
Limit value type : PNEC sewage treatment plant (STP) ( FLUE DUST ; CAS No. : 68475-76-3 )  
Limit value : 6 mg/l

### 8.2 Exposure controls

#### Personal protection equipment

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## Eye/face protection

Suitable eye protection  
DIN EN 166

## Skin protection

Hand protection  
DIN EN 374

## Respiratory protection

Quarter-face mask (DIN EN 140) Half-face mask (DIN EN 140) Filtering Half-face mask (DIN EN 149)

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Safety relevant basis data

Aspect		powder
Colour		greyish
Odour		none
Melting point/melting range :	( 1013 hPa )	No data available
Vapour density	( air = 1 )	Data not available
Initial boiling point and boiling range :	( 1013 hPa )	No data available
Decomposition temperature :		No data available
Self flammability		not applicable
Flash point :		Not flammable
Flammability (solid, gas)		Data not available
Lower explosion limit :		No data available
Upper explosion limit :		No data available
Explosive properties		Not applicable
Vapour pressure	( 20 °C )	negligible
Density :	( 20 °C )	No data available
Density :	( 23 °C )	No data available
Water solubility :	( 20 °C )	almost insoluble
pH :	>	11
Log Pow	( 20 °C )	not applicable
Viscosity :	( 20 °C )	No data available
Viscosity :	( 23 °C )	No data available
Odour threshold		Data not available
Evaporation rate		Data not available
Maximum VOC content (EC) :		0 Wt %
Oxidizing properties		Not oxidising

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Basic reaction when in mixed with water before to became a solid inert compound.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions.

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### 10.3 Possibility of hazardous reactions

No hazardous reactions when stored and handled properly.

### 10.4 Conditions to avoid

Protect from contact with water to avoid solidification of the product.

### 10.5 Incompatible materials

Acid

### 10.6 Hazardous decomposition products

None

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

##### Acute oral toxicity

Parameter : LD50 ( LIME (CHEMICAL), HYDRAULIC ; CAS No. : 85117-09-5 )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 2000 mg/kg bw/day  
Method : OECD 425

It has no significant toxicity properties.

##### Acute dermal toxicity

Parameter : LD50 ( CEMENT, PORTLAND, CHEMICALS ; CAS No. : 65997-15-1 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 2000 mg/kg bw/day  
Exposure time : 24 days

It has no significant toxicity properties.

##### Acute inhalation toxicity

Parameter : LD50 ( FLUE DUST ; CAS No. : 68475-76-3 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 6,04 mg/l  
Exposure time : 4 h

#### Irritant and corrosive effects

##### Primary irritation to the skin

On contact with moist skin may cause thickening, cracking and cracking of the skin. Prolonged contact in combination with existing abrasions can cause burns.

##### Irritation to eyes

Direct contact with the product may cause corneal injury due to mechanical stress, immediate or delayed irritation or inflammation. The direct contact with large quantities of product dry or with projections of wet product can cause effects ranging from irritation ocular moderate (eg. Conjunctivitis or blepharitis) to chemical burns and blindness.

##### Irritation to respiratory tract

Dust may irritate throat and respiratory system. Coughing, sneezing and panting may occur as a result of exposure above the occupational exposure limits.

#### Sensitisation

Eczema can be developed as a result of exposure to dust damp, caused both by the high pH which induces irritant contact dermatitis after prolonged contact, either by an immunological reaction to Cr (VI) soluble which causes allergic contact dermatitis.

##### In case of inhalation

not sensitising.

#### Repeated dose toxicity (subacute, subchronic, chronic)

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### Subacute inhalation toxicity

The available evidence indicates clearly that occupational exposure to cement dust content in the product causes deficits in lung function. However, the evidence available at present are insufficient to establish with certainty the dose-response relationship for these effects.

### Chronic inhalation toxicity

There were no chronic effects or effects at low concentrations.

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The ingredients in this mixture do not meet the criteria for classification as CMR according to CLP.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

##### Acute (short-term) fish toxicity

Parameter : LC50 ( LIME (CHEMICAL), HYDRAULIC ; CAS No. : 85117-09-5 )  
Species : Fresh Water fish  
Effective dose : 50,6 mg/l  
Exposure time : 96 h

Parameter : LC50 ( LIME (CHEMICAL), HYDRAULIC ; CAS No. : 85117-09-5 )  
Species : Saltwater Fish  
Effective dose : 457 mg/l  
Exposure time : 96 h

##### Acute (short-term) daphnia toxicity

Parameter : EC50 ( LIME (CHEMICAL), HYDRAULIC ; CAS No. : 85117-09-5 )  
Species : Freshwater invertebrates.  
Effective dose : 49,1 mg/l  
Exposure time : 48 h

Parameter : EC50 ( LIME (CHEMICAL), HYDRAULIC ; CAS No. : 85117-09-5 )  
Species : Saltwater invertebrates  
Effective dose : 158 mg/l  
Exposure time : 96 h

##### Chronic (long-term) daphnia toxicity

Parameter : NOEC ( LIME (CHEMICAL), HYDRAULIC ; CAS No. : 85117-09-5 )  
Species : Saltwater invertebrates  
Effective dose : 32 mg/l  
Exposure time : 96 h

##### Acute (short-term) algae toxicity

Parameter : EC50 ( LIME (CHEMICAL), HYDRAULIC ; CAS No. : 85117-09-5 )  
Species : Freshwater algae  
Effective dose : 184,57 mg/l  
Exposure time : 72 h

Parameter : EC0 ( LIME (CHEMICAL), HYDRAULIC ; CAS No. : 85117-09-5 )  
Species : Freshwater algae  
Effective dose : 48 mg/l  
Exposure time : 72 h

### 12.2 Persistence and degradability

Poorly watersoluble, inorganic product. Can be mechanically precipitated to a large extent in biological sewage plants.

### 12.3 Bioaccumulative potential

not applicable

### 12.4 Mobility in soil

Low solubility in soil.

### 12.5 Results of PBT and vPvB assessment

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This product is none, or does not contain a substance called a PBT or vPvB

### 12.6 Other adverse effects

No information available.

### 12.7 Additional ecotoxicological information

None

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

No information available.

## SECTION 14: Transport information

### 14.1 UN number

No dangerous good in sense of these transport regulations.

### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

### 14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

### 14.4 Packing group

No dangerous good in sense of these transport regulations.

### 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

### 14.6 Special precautions for user

None

## SECTION 15: Regulatory information

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

#### EU legislation

##### Other regulations (EU)

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]  
This product is not classified according to Directive 2012/18/EU.

##### Regulation (CE) 1907/2006: Substance of very high concern included in the SVHC Candidate List

None

#### National regulations

##### Water hazard class (WGK)

Class : nwg (Non-hazardous to water) Classification according to VwVwS

### 15.2 Chemical safety assessment

not applicable

## SECTION 16: Other information

### 16.1 Indication of changes

None

### 16.2 Abbreviations and acronyms

None

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### 16.3 Key literature references and sources for data

None

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

calculated.

### 16.5 Relevant H- and EUH-phrases (Number and full text)

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

### 16.6 Training advice

None

### 16.7 Additional information

None

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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