

# Safety Data Sheet

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



Trade name : MICROSIL 90  
Revision date : 26.05.2017  
Print date : 03.07.2018

Version (Revision) : 3.0.0

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

#### 1.1 Product identifier

MICROSIL 90

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

Preparation for construction and construction: Selected and thickened microsilicates.

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

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

AZICHEM Srl

**Street :** Via G. Gentile 16/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 +39 02 66101029 (CAV Ospedale Niguarda Ca' Granda -Milano) (24h)

Centro Antiveleni di Pavia +39 0382 24444 (CAV IRCCS Fondazione Maugeri - Pavia)

Centro Antiveleni di Bergamo +39 800 883300 (CAV Ospedali Riuniti - Bergamo)

Centro Antiveleni di Firenze +39 055 7947819 (CAV Ospedale Careggi - Firenze)

Centro Antiveleni di Roma +39 06 3054343 (CAV Policlinico Gemelli - Roma)

Centro Antiveleni di Roma +39 06 49978000 (CAV Policlinico Umberto I - Roma)

Centro Antiveleni di Napoli +39 081 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]

None

#### 2.2 Label elements

None

#### 2.3 Other hazards

None

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Hazardous ingredients

None

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

When in doubt or if symptoms are observed, get medical advice.

##### Following inhalation

Remove victim out of the danger area. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

##### In case of skin contact

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Wash immediately with: Water Remove contaminated, saturated clothing immediately. In case of skin irritation, consult a physician. In case of skin reactions, consult a physician.

### After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

### After ingestion

Never give anything by mouth to an unconscious person or a person with cramps.

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

No information available.

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Extinguishing powder alcohol resistant foam Carbon dioxide (CO<sub>2</sub>) Water mist

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

None

### 5.3 Advice for firefighters

Remove persons to safety.

#### Special protective equipment for firefighters

Do not inhale explosion and combustion gases. Use appropriate respiratory protection.

## SECTION 6: Accidental release measures

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

Clear spills immediately. Wear a self-contained breathing apparatus and chemical protective clothing.

#### For non-emergency personnel

Remove persons to safety.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

#### For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

#### For cleaning up

The contaminated area should be cleaned up immediately with: Water Retain contaminated washing water and dispose it.

### 6.4 Reference to other sections

Reference to other sections Safe handling: see section 7 Personal protection equipment: see section 8

## SECTION 7: Handling and storage

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## 7.1 Precautions for safe handling

### Protective measures

#### Specific requirements or handling rules

Do not breathe dust. Do not breathe gas/fumes/vapour/spray. See section 8.

#### Advices on general occupational hygiene

Normal precautions taken when handling chemicals should be observed.

## 7.2 Conditions for safe storage, including any incompatibilities

Only use containers specifically approved for the substance/product.

### Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place. Protect against UV-radiation/sunlight Humidity.

### Hints on joint storage

Storage class : 10

Storage class (TRGS 510) : 10

#### Keep away from

Store at least 3 metres apart from: Chemicals/products that react together readily

### Further information on storage conditions

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

## 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Riferimenti Normativi:

EU OEL EU Direttiva (UE) 2017/2398; Direttiva (UE) 2017/164; Direttiva 2009/161/UE; Direttiva 2006/15/CE; Direttiva 2004/37/CE; Direttiva 2000/39/CE; Direttiva 91/322/CEE.  
RCP TLV

ACGIH TLVs and BEIs –  
Appendix H

#### VETRO, OSSIDO, E-GLASS

##### Valore limite di soglia

Tipo	Stato	TWA	Stato	TWA
	Regno Unito	TWA: 2 f/ml	Francia	TWA: 2f/ml
	Stato Germania	TWA: 0,25 f/ml	Stato Paesi Bassi	TWA: 1f/ml

#### DIOSSIDO DI SILICIO silica fume

##### Valore limite di soglia

Tipo	Stato	TWA/8h
		mg/m3

ACGIH TLV-TWA 8ore	= 3	POLVERE RESPIRABILE
ACGIH TLV-TWA 8ore	= 10	POLVERE TOTALE INALABILE
DNEL particelle respirabili	= 0,3 mg/m3	
DNEL particelle inalabili	= 4 mg/m3	

### 8.2 Exposure controls

#### Appropriate engineering controls

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If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

## Personal protection equipment



When using do not eat, drink, smoke, sniff.

### Eye/face protection

#### Suitable eye protection

Eye glasses with side protection

### Skin protection

#### Hand protection

Tested protective gloves must be worn

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Safety relevant basis data

Aspect		Crystalline powder
Colour		from white to gray
Odour		none
Melting point/melting range :	( 1013 hPa )	1500 °C
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 :	approx.	350 °C
Flammability (solid, gas)		Data not available
Lower explosion limit :		No data available
Upper explosion limit :		No data available
Explosive properties		Data not available
Density :	( 20 °C )	Non applicable
Bulk density	( 20 °C )	0,15 - 0,7 kg/m <sup>3</sup>
Water solubility :	( 20 °C )	insoluble
pH :		9
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

No information available.

### 10.2 Chemical stability

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See section 7. No additional measures necessary.

### 10.3 Possibility of hazardous reactions

No information available.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

No information available.

### 10.6 Hazardous decomposition products

No information available.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

SILICIO DIOXIDE  
LD50 (Oral) > 5000 mg / kg Rat  
LD50 (Cutaneous) > 5000 mg / kg Rabbit  
LD50 (Inhalation) > 2000 mg / m<sup>3</sup> Rat.

#### Irritant and corrosive effects

##### Primary irritation to the skin

Irritating to skin.

##### Irritation to eyes

strongly irritant.

#### Sensitisation

No known sensitizing effect.

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

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

Do not allow uncontrolled discharge of product into the environment.

### 12.1 Toxicity

No information available.

### 12.2 Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Other adverse effects

No information available.

### 12.7 Additional ecotoxicological information

None

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product/Packaging disposal

Reuse, if pliable. Product and packaging residues must be sent for recovery or disposal in compliance with current legislation.

### 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

#### 14.7 Transport in 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

##### EU legislation

Regulation (EC) 1907/2006/CE (REACH). Regulation (EC) No 1272/2008 (CLP). Regulation (EU) 2015/830 requirements for the compilation of safety data sheets. Commission Regulation (EC) No 790/2009/CE (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 286/2011 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 618/2012 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 487/2013 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 758/2013 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 944/2013 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 605/2014 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 1297/2015 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008).

##### Other regulations (EU)

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

None

##### National regulations

Italy: Legislative Decree 81/2008 (Consolidated Law on protection of health and safety at work), as amended and Directive 2009/161/UE - chemical risk assessment in accordance with Title IX

##### Water hazard class (WGK)

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

#### 15.2 Chemical safety assessment

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not applicable

### SECTION 16: Other information

#### 16.1 Indication of changes

02. Label elements · 03. Further ingredients

#### 16.2 Abbreviations and acronyms

##### LEGENDA:

ADR:	Accord européen relative au transport international des marchandises dangereuses par route (accordo europeo relativo al trasporto internazionale delle merci pericolose su strada)
ASTM:	ASTM International, originariamente nota come American Society for Testing and Materials (ASTM)
EINECS:	European Inventory of Existing Commercial Chemical Substances (Registro Europeo delle Sostanze chimiche in Commercio)
EC(0/50/100):	Effective Concentration 0/50/100 (Concentrazione Effettiva Massima per 0/50/100% degli Individui)
LC(0/50/100):	Lethal Concentration 0/50/100 (Concentrazione Letale per 0/50/100% degli Individui)
IC50:	Inhibitor Concentration 50 (Concentrazione Inibente per il 50% degli Individui)
NOEL:	No Observed Effect Level (Dose massima senza effetti)
NOEC:	No Observed Effect Concentration (Concentrazione massima senza effetti)
LOEC:	Lowest Observed Effect Concentration (Concentrazione massima alla quale è possibile evidenziare un effetto)
DNEL:	Derived No Effect Level (Dose derivata di non effetto)
DMEL:	Derived Minimum Effect Level (Dose derivata di minimo effetto)
CLP:	Classification, Labelling and Packaging (Classificazione, Etichettatura e Imballaggio)
CSR:	Rapporto sulla Sicurezza Chimica (Chemical Safety Report)
LD(0/50/100):	Lethal Dose 0/50/100 (Dose Letale per 0/50/100% degli Individui)
IATA:	International Air Transport Association (Associazione Internazionale del Trasporto Aereo)
ICAO:	International Civil Aviation Organization (Organizzazione Internazionale dell'Aviazione Civile)
Codice IMDG:	International Maritime Dangerous Goods code (Codice sul Regolamento del Trasporto Marittimo)
PBT:	Persistent, bioaccumulative and toxic (sostanze persistenti bioaccumulabili e tossiche)
RID:	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regolamento concernente il trasporto Internazionale ferroviario delle merci Pericolose)
STEL:	Short term exposure limit (limite di esposizione a breve termine)
TLV:	Threshold limit value (soglia di valore limite)
TWA:	Time Weighted Average (media ponderata nel tempo)
UE:	Unione Europea
vPvB:	Very persistent very bioaccumulative (sostanze molto persistenti e molto bioaccumulabili)
N.D.:	Non disponibile.
N.A.:	Non applicabile
VwVwS.:	Text of Administrative Regulation on the Classification of Substances hazardous to waters into Water Hazard Classes (Verwaltungsvorschrift wassergefährdende Stoffe – VwVwS)
PNEC:	Predicted No Effect Concentration
PNOS:	Particulates not Otherwise Specified
BOD:	Biochemical Oxygen Demand
COD:	Chemical Oxygen Demand
BCF:	BioConcentration Factor
TRGS :	Technische Regeln für Gefahrstoffe -Technical Rules for Hazardous Substances, defined by The Federal Institute for Occupational Safety and Health, Germany
LCLo:	Lethal Concentration Low (La minima concentrazione letale)
ThOD:	Theoretical Oxygen Demand

#### 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]

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calculated.

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

None

## 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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