

## 1. Identification of the substance or mixture and of the company

### 1.1. Product ID

**Trade name:** Microceramix ceramic microspheres

**Trade code:** MMX045, MMX135, MMX675

**Registration number:** Not applicable.

For other substances in the mixture, a registration number is available (see Section 3.1 Ingredients) because the substance or its uses are not exempt from registration or the annual tonnage requires registration.

### 1.2. Relevant identified uses of the substance or mixture and non-recommended uses

The product can be used as a light additive for construction, chemistry and others. Industrial, professional uses.

### Non-recommended uses

None in particular. This material should not be used for any purpose other than those indicated without expert advice.

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

**Supplier** **Ediltermika S.r.l.**  
S.S. 11 - Km 321 - 37038 Soave (VR)  
Tel. +39 045 7612321 Fax +39 045 6100997  
E-mail [ediltermika@ediltermika.it](mailto:ediltermika@ediltermika.it)

### 1.4. Emergency telephone number

#### Poison Control Centre (CAV)

800 011 858 Azienda Ospedaliera Universitaria Integrata di Verona, piazzale Stefani 1. Available 24 hours, 7 days a week.

+39 02 66101029 Niguarda Ca' Granda Hospital, Milan

+39 0382 24444 National Centre for Toxicological Information, Pavia

800 883 300 'Papa Giovanni XXIII' Hospital, Bergamo

+39 055 7947819 'Careggi' Hospital, Florence

+39 06 68593726 'Bambino Gesù Children's Hospital', Rome

+39 06 49978000 'Umberto I' General Hospital, Rome

+39 06 3054343 'A. Gemelli' General Hospital, Rome

+39 081 7472870 'A. Cardarelli' Hospital, Naples

800 183 459 University Hospital, Foggia

## 2. Hazard Identification

### 2.1. Classification of the substance or mixture

**Product definition:** Mixture

#### Classification according to Regulation (EC) No. 1272/2008 (CLP):

This product is not classified as hazardous.

This product does not meet the criteria for classification in any hazard class in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. However, it is supplied with a safety data sheet on request, as it contains a component for which there is an EU workplace exposure limit.

## 2.2. Label Elements

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

This product is not labelled as hazardous.

P260: Do not breathe dust / fume / gas / mist / vapours / spray.

P262: Do not get in eyes, on skin, or on clothing.

## 2.3. Other hazards

Physical / Chemical	None.
Health	None.
Environment	None.
Contaminants	None.

This mixture does not meet the PBT/vPvB criteria of REACH, Appendix XIII.

The mixture is not included in the list established according to Article 59(1) of REACH for endocrine disrupting properties.

The mixture is not a substance identified as having endocrine disrupting properties in accordance with the criteria set out in Regulation (EU) No 2017/2100 or Regulation (EU) No 2018/605.

The use of this chemical agent entails the obligation for the employer to perform a 'risk assessment' in accordance with the provisions of Italian Legislative Decree no. 81 of 9 April 2008. Workers exposed to this chemical agent do not have to undergo health surveillance if the results of the risk assessment show that, in relation to the type and quantity of the hazardous chemical agent and the manner and frequency of exposure to that agent, there is only an 'insignificant risk' to the health and safety of workers and that the measures set forth in the Legislative Decree itself are sufficient to reduce the risk.

## 3. Composition/information about ingredients

### 3.1. Substances

None.

### 3.2. Mixtures

Refer to point 16 for the full text of the R-phrases and hazard statements.

Mixture	% by weight in product	Classification	CAS	EINECS	REACH
Microceramix	> 99 %	Non-hazardous	93924-19-7	300-212-6	01-2119563688-21-0016

## 4. First Aid Measures

### 4.1. Description of first aid measures

- GENERAL CASE

If in doubt or if the symptoms of poisoning persist, seek medical advice. Never make an unconscious person drink fluids.

- INHALATION

Move the person away from the hazard area. Have the person breathe fresh air and seek medical advice.

- DIRECT SKIN CONTACT

Wash thoroughly with water. In the event of skin irritation (redness, etc.), seek medical advice.

- DIRECT EYE CONTACT

Contact lenses, if worn, must be removed. Rinse thoroughly with water for at least 10 minutes, keeping the eyelids open. Consult an ophthalmologist.

- SWALLOWING

Swallowing of a product is a very unlikely event. If swallowed, do not induce vomiting in order to avoid the risk of aspiration of the product in the airway, with possible lung congestion. Seek medical advice immediately.

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

The most important known symptoms and effects are described in section 11.

#### **4.3. Indication of any need for immediate medical attention and special treatment needed**

Notes for the physician: none.

### **5. Fire-fighting measures**

#### **5.1. Extinguishing agents**

- RECOMMENDED EXTINGUISHING AGENTS

In the event of a fire, use water mist or chemical powder or foam products or carbon dioxide.

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

No data available.

#### **5.3. Recommendations for firefighters**

Exposure to combustion gases can pose health risks: use a mask against fire fumes and vapours. Water mist can be used to protect people engaged in the extinguishing operations.

NOTES: dispose of contaminated water used to extinguish fires in accordance with current regulations.

### **6. Measures in case of accidental spill**

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

For people not directly involved in the operations:

- Move away from the area around the spill or leak.
- Do not smoke.
- There are no known unsuitable materials.

For those who intervene directly:

- Wear all required Personal Protective Equipment (PPE) (see section 8).
- Eliminate all open flames and possible sources of ignition.
- Avoid dust formation.
- Avoid breathing vapours/mist/gas. Do not inhale dust.
- Do not smoke.
- Ensure adequate ventilation.
- Evacuate the danger area and, if necessary, consult an expert.

#### **6.2. Environmental precautions**

If the product has spilled into a water course, sewer system or has contaminated soil or vegetation, notify the relevant authorities.

Dispose of the residue in accordance with current regulations.

#### **6.3. Methods and materials for containment and reclamation**

- Collect the product rapidly while wearing a mask and protective clothing.
- Collect and arrange for disposal without creating dust.
- Sweep and shovel, wetting the product first.
- Store in suitable, closed containers for disposal

- Collect the product for re-use, if possible, or for disposal. If necessary, absorb it with inert material.
- Prevent it from entering the sewer system.

#### **6.4. Reference to other sections**

Please refer to points 8 and 13 for further information.

## **7. Handling and storage**

In addition to the information provided in this section, other relevant information can be found in Sections 8 and 6.1.

### **7.1. Precautions for safe handling**

- Avoid contact and inhalation of vapours.
- Do not eat or drink while working.
- Observe the indications on the label and the instructions for use.
- Follow the general rules of hygiene for chemicals.
- Normal fire prevention measures.

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

- Keep in the tightly closed original container. Do not store in open or unlabelled containers.
- Store in a cool, dry place.
- Keep the container tightly closed in a dry, well-ventilated environment. The product is moisture sensitive.
- Keep containers upright and secure against the possibility of falling or being knocked over.
- Store in a cool place, away from any source of heat and direct sunlight.

### **7.3. Specific end uses**

Professional, industrial uses: handle with care. Store in a ventilated place and away from heat sources. Keep the container tightly closed.

## **8. Exposure control/personal protection**

### **8.1. Control parameters**

Of the contained substances:

- **PNOS (Powders not otherwise specified)**

TLV: 10 mg/m<sup>3</sup> (ACGIH).

### **8.2. Exposure controls**

a) Technical controls:

Provide an appropriate local ventilation system for the work.

Use generalised and/or localised ventilation to keep airborne exposure below occupational exposure limits and/or to control dust/fume/gas/mist/vapour/spray emissions. If ventilation is inadequate, use respiratory protection.

Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the working day.

b) Individual protection measures

- i. Eye / face protection

Use safety glasses (goggles) (EN 166) when handling the pure product.



ii. Skin protection

- Hand protection

Select and use protective gloves/protective clothing approved according to current regulations to prevent skin contact, based on the results of an exposure assessment. The choice should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical factors such as extreme temperatures and other conditions of use. The appropriate types of gloves/protective clothing can be chosen with the advice of a personal protective equipment manufacturer

Note: Nitrile gloves can be worn over polymer laminate gloves to improve dexterity.

The use of gloves tested according to EN 374 is recommended.

- Miscellaneous



Wear normal work clothes.

iii. Respiratory protection

An exposure assessment may be necessary to decide whether respiratory protection is required. Use dust masks with FFP 2S/3S filters (EN 149).

iv. Thermal

hazards No hazards to report.



c) Environmental exposure controls:

d) Minimise the release of product into the environment.

Limit values for PM10 and PM 2,5 (Directive 2008/50/EC)

PM 10 daily 50 µg/m<sup>3</sup>(from 01/01/2005)

PM 10 annual 40 µg/m<sup>3</sup>(from 01/01/2005)

PM 2.5 annual 25 µg/m<sup>3</sup>(from 01/01/2005)

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value
Physical state	Powder solid (5-300 µm)
Colour	Light Grey
Odour	None
Olfactory threshold	Not determined
pH	Not measurable
Melting point / freezing point	1200 / 1400 °C
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not determined
Flammability (solids, gases)	Non-flammable
Upper / lower flammability or explosion limits	Not determined
Vapour pressure	Not determined
Vapour density	Not determined
Density	0,35/0,85 g/cm <sup>3</sup> 20 °C

Physical and chemical properties	Value
Solubility	Insoluble in water
Water solubility	Insoluble
Partition coefficient: n-octanol/water	Not determined
Self-ignition temperature	Non-flammable
Decomposition temperature	Not determined
Viscosity	Not determined
Explosive properties	Non-explosive
Oxidising properties	Non-oxidising

### 9.2. Other information

No data available.

## 10. Stability and reactivity

### 10.1. Reactivity

No danger of reactivity.

### 10.2. Chemical stability

Stable under normal conditions of use and storage.

### 10.3. Possibility of dangerous reactions

No dangerous reactions are foreseen.

### 10.4. Conditions to avoid

None to report.

### 10.5. Incompatible materials

None to report.

### 10.6. Hazardous decomposition products

No hazardous decomposition products.

## 11. Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No. 1272/2008

No data are available about the finished product.

**ROUTES OF EXPOSURE:** The substance can be absorbed into the body mainly through contact and ingestion, possibly also through the inhalation of the dust.

*Eye contact:* Accidental contact of the product with the eyes causes irritation.

*Skin contact:* Accidental contact of the product with the skin did not reveal any skin irritation.

*Swallowing:* If swallowed, the product may cause irritation of the mucous membranes of the throat and digestive tract, leading to abnormal digestive symptoms and intestinal disorders.

*Inhalation:* Prolonged exposure to product vapours or mists may cause irritation of the respiratory tract.

**CANCEROGENICITY:** Based on available data, the classification criteria are not met. No component of this product present at levels higher than or equal to 0.1% is identified as a known or predicted carcinogen by IARC.

**MUTAGENICITY:** Based on the available data, the classification criteria are not met. **REPRODUCTIVE**

**TOXICITY:** Based on available data, the classification criteria are not met.

**11.2. Information on other hazards**

No further hazards to report.

**12. Ecological information**

**12.1. Toxicity**

Of the contained substances:

- **Aluminium Silicate**

Product test data not available.

Material	CAS	Body	Type	Exposure	Test Endpoints	Result of the test
Aluminium silicate (cenospheres)	93924-19-7	Green Algae	Experimental	72 hours	ED50	> 100 mg/L
		Guppy	Experimental	96 hours	Lethal level 50%	> 100 mg/L
		Daphnia	Experimental	48 hours	ED50	> 100 mg/L
		Green Algae	Experimental	72 hours	NOEL (No Observed Effect Level)	100 mg/L
		Daphnia	Experimental	21 days	NOEL (No Observed Effect Level)	100 mg/L

**12.2. Persistence and degradability**

No or insufficient data available for classification.

**12.3. Bioaccumulative potential**

No or insufficient data available for classification.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

No chemical safety report.

**12.6. Endocrine-disrupting properties**

No endocrine disrupting properties are identified.

**12.7. Other adverse effects**

No adverse effects observed.

**13. Considerations on disposal**

**13.1. Waste treatment methods**

Do not reuse empty containers. Dispose of them in accordance with current regulations. Any product residues must be disposed of according to good working practice, avoiding dispersal in the environment. Do not discharge into sewers, drains or watercourses.

Comply with current legislation on the protection of water and soil from pollution (Legislative Decree No. 152 of 3/4/2006).

Dispose of used product and containers using authorised companies, in accordance with the provisions of Legislative Decree No. 152/2006 as amended.

Depending on the specific use and disposal characteristics of the user, different EWC codes may be assigned (2008/98/EC).

Recover if possible. Send to authorised disposal plants or for incineration under controlled conditions.

Operate in accordance with current local and national regulations.

## 14. Transport information

### 14.1. UN or ID number

Not covered by EU directives and Italian legislation concerning the inland transport of hazardous substances, by road (A.D.R.) by rail (R.I.D.), by sea (I.M.D.G.).

### 14.2. Official UN transport designation

None.

### 14.3. Transport hazard classes

None.

### 14.4. Packaging group

None.

### 14.5. Environmental hazards

None.

### 14.6. Special precautions for users

Unless otherwise specified, the relevant general measures usually in use must be observed in order to carry out safe transport.

### 14.7. Maritime transport in bulk according to IMO Acts

Not a dangerous good according to the aforementioned legislation.

## 15. Regulatory information

### 15.1. Safety, health and environmental regulations specific to the substance or mixture

Regulation (EC) No. 1907/2006 and related national and EU legislation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), and subsequent adaptations to technical and scientific progress.

Regulation (EC) No. 1272/2008 and related national and EU legislation on classification, labelling and packaging of substances and mixtures and subsequent adaptations to technical and scientific progress.

Regulation (EU) No. 453/2010 amending Regulation (EC) No. 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), as adapted to technical and scientific progress.

Legislative Decree No. 81 of 09/04/2008 (Consolidation Act on Safety) as amended, concerning the improvement of workers' health and safety.

Legislative Decree. 238/2005 (Seveso ter) - transposition of Directive 2003/105/EC amending Directive 96/82/EC on the control of major-accident hazards involving dangerous substances.

### 15.2. Chemical Safety Assessment

A chemical safety assessment was not performed for this mixture. Chemical safety assessments for contained substances may have been conducted by substance registrants in accordance with Regulation (EC) No. 1907/2006 (REACH) as amended.

## 16. Other information

### 16.1. Other information

Description of the hazard statements (H) and precautionary measures (P) set out in section 3. P260:  
Do not breathe dust / fume / gas / mist / vapours / spray.



P262: Do not get in eyes, on skin, or on clothing.

Classification based on raw material data of all mixture components.

The information in this safety data sheet describes the product with reference to necessary safety measures, it does not guarantee certain characteristics and is based on currently available data and our best knowledge regarding the most suitable criteria for handling the product under normal conditions. Any other use of the product not in accordance with the indications in this data sheet or the use of the product in combination with any other product or in any other process is the sole responsibility of the user. Moreover, this SDS is provided to convey health and safety information. The official importer of this product into the European Union is responsible for all regulatory requirements, including but not limited to product registrations/notifications, volume calculation and potential registration of substances.

Form filled in in accordance with the requirements of Annex I of Regulation (EU) No. 453/2010, as well as the provisions of Regulation (EC) No. 1272/2008 and Regulation (EU) No. 878/2020 amending Annex II of Regulation (EC) No. 1907/2006 as amended.

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\*\*\* End of Safety Data Sheet. This cancels and replaces all previous editions. \*\*\*