

Monocomponent Microcement

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IDENTIFICATION OF THE SUBSTANCE OR THE MIXTURE AND OF THE COMPANY OR THE UNDERTAKING.

1.1 Product identifier.

Product name:	Monocomponent Microcement
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1.2 Relevant identified uses of the substance or mixture and uses advised against.

Decorative coating with a microcement effect.

Uses advised against:

Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

Company:	SATINE FACTORY SL
Address:	C/Coure, 16-18.
Town:	12530 Burriana
Province:	Castellón.
Telephone:	+34 692 100 100
E-mail:	info@satine.es
Web:	www.satine.es

1.4 Emergency telephone number:

+34 977 822 245 (Only available during office hours; Monday-Friday; 08:00-18:00)

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HAZARDS IDENTIFICATION.

2.1 Classification of the substance or mixture.

According to Regulation (EC) No 1272/2008:

- The classification of this product has been carried out in accordance with Regulation No 1272/2008 (CLP).
- Eye Dam. 1: Serious eye damage, category 1, H318
- Skin Irrit. 2: Skin irritation, category 2, H315
- Skin Sens. 1: Skin sensitisation, category 1, H317
- STOT SE 3: Specific target organ toxicity — Single exposure, category 3, respiratory tract irritation, H335

2.2 Label elements. Labelling according to Regulation (EC) No 1272/2008:

Pictograms:



Hazard statements:

Causes serious eye damage

Causes skin irritation

May cause an allergic skin reaction

May cause respiratory irritation

Precautionary statements:

If medical advice is needed, have product container or label at hand

Keep out of reach of children

Read label before use

Wear protective gloves/protective clothing/eye protection/face protection

IF ON SKIN: Wash with plenty of water

IF INHALED: Remove person to fresh air and keep comfortable for breathing IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Dispose of contents/container in accordance with current waste treatment legislation

Substances that contribute to the classification

Cement, portland, chemicals

2.3 Other hazards.

The product does not meet the PBT/vPvB criteria

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COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Not applicable.

3.2 Mixtures.

Chemical description: Mixture of binders, aggregates and additives

Identification	Chemical name/classification	Concentration
CAS: 65997-15-1 EC: 266-043-4 Index: Not applicable REACH: Not applicable	Cement, portland, chemicals ¹ Self-classified Regulation 1272/2008  Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 - Danger	10 - <40 %

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FIRST AID MEASURES.

4.1 Description of first aid measures.

Symptoms resulting from poisoning may appear after exposure, so in case of doubt, direct exposure to the chemical product or persistent discomfort, seek medical attention and show the SDS of this product.

By inhalation:

Remove the affected person from the place of exposure, provide fresh air and keep them at rest. In serious cases such as cardiorespiratory arrest, artificial respiration techniques (mouth-to-mouth resuscitation, cardiac massage, oxygen supply, etc.) will be applied, requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and shoes, rinse the skin or shower the affected person if necessary with plenty of cold water and neutral soap. In case of significant injury, see a doctor. If the product causes burns or frostbite, clothing must not be removed as this could worsen the injury if it is stuck to the skin. If blisters form on the skin, they must never be burst as this would increase the risk of infection.

By eye contact:

Rinse the eyes with plenty of water at room temperature for at least 15 minutes. Prevent the affected person from rubbing or closing their eyes. If the injured person wears contact lenses, these must always be removed unless they are stuck to the eyes, as otherwise additional damage could occur. In all cases, after washing, see a doctor as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting; if it occurs, keep the head tilted forward to avoid aspiration.

Keep the affected person at rest. Rinse the mouth and throat, as they may have been affected during ingestion.

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

The acute and delayed effects are those indicated in sections 2 and 11.

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

Not relevant.

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FIRE-FIGHTING MEASURES.

5.1 Extinguishing media. Suitable extinguishing media:

Product is not flammable under normal conditions of storage, handling and use. In case of ignition as a result of improper handling, storage or use, preferably use multipurpose dry powder extinguishers (ABC powder), in accordance with the Regulation on fire protection installations (R.D. 1942/1993 and subsequent amendments).

Unsuitable extinguishing media:

The use of a water jet as an extinguishing agent is NOT RECOMMENDED.

5.2 Special hazards arising from the substance or mixture. Special risks.

As a result of combustion or thermal decomposition, reaction by-products are generated that can be highly toxic and, consequently, can present a high health risk.

5.3 Advice for fire-fighters.

Depending on the magnitude of the fire, it may be necessary to use full protective clothing and self-contained breathing apparatus. Have a minimum of emergency facilities or means of action (fire blankets, portable first-aid kit,...) in accordance with R.D. 486/1997 and subsequent amendments

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on action in the event of accidents and other emergencies. Eliminate any source of ignition. In case of fire, cool containers and storage tanks of products susceptible to ignition, explosion or BLEVE as a result of high temperatures. Avoid discharging products used in extinguishing the fire into the aquatic environment.

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ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

Sweep up and collect the product with shovels or other means and place it in a container for reuse (preferably) or disposal.

6.2 Environmental precautions.

Product not classified as hazardous to the environment. Keep the product away from drains and from surface and ground waters.

6.3 Methods and material for containment and cleaning up.

The following is recommended:

Sweep up and collect the product with shovels or other means and place it in a container for reuse (preferably) or disposal.

6.4 Reference to other sections.

See sections 8 and 13

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HANDLING AND STORAGE.

7.1 Precautions for safe handling.

A.- General precautions

Use in ventilated areas. Avoid the formation and accumulation of dust

B.- Technical recommendations for the prevention of fires and explosions.

Due to its flammability characteristics, the product does not present a fire risk under normal conditions of storage, handling and use.

C.- Technical recommendations to prevent ergonomic and toxicological risks.

For exposure control see section 8. Do not eat, drink or smoke in work areas; wash hands after each use, and remove contaminated clothing and protective equipment before entering eating areas.

D.- Technical recommendations to prevent environmental risks.

It is recommended to have absorbent material available near the product (see section 6.3)

7.2 Conditions for safe storage, including any incompatibilities.

A.- Technical storage measures

ITC (R.D.656/2017):	Not relevant
Classification:	Not relevant
Min. temp.:	5 °C
Max. temp.:	40 °C

B.- General storage conditions.

- Avoid sources of heat, radiation, static electricity and contact with food. For additional information see section 10.5
Keep the container tightly closed and protected from exposure to air and moisture.

7.3 Specific end use(s).

Except for the indications already specified, no special recommendation is necessary regarding the uses of this product.

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EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

Substances whose occupational exposure limit values must be monitored in the workplace environment (INSHT 2017):

Identification	Ambient limit values	
Cement, portland, chemicals CAS: 65997-15-1 EC: 266-043-4	VLA-ED (TWA)	4 mg/m ³
	VLA-EC (STEL)	
	Year	2017

Particles not otherwise specified: Inhalable fraction VLA-ED= 10 mg/m³ // Respirable fraction VLA-ED= 3 mg/m³ DNEL (Workers):

Not relevant

DNEL (Population):

Not relevant

PNEC:

Not relevant

8.2 Exposure controls.

A.- General safety and hygiene measures in the work environment:

- As a preventive measure, the use of basic personal protective equipment is recommended, with the corresponding CE marking in accordance with R.D. 1407/1992 and subsequent amendments. For more information on personal protective equipment (storage, use, cleaning, maintenance, protection class, ...) consult the information leaflet provided by the PPE manufacturer. The indications contained in this point refer to the pure product. Protection measures for the diluted product may vary depending on its degree of dilution, use, application method, etc. To determine the obligation to install emergency showers and/or eyewash stations in warehouses, the regulations on the storage of chemical products applicable in each case will be taken into account. For more information see sections 7.1 and 7.2.
- All the information included here is a recommendation, and it must be specified by the occupational risk prevention services, as they are unaware of any additional prevention measures the company may have or whether they have been included in the relevant risk assessment.

B.- Respiratory protection.

Pictogram	PPE	Marking	CEN standards	Remarks
 Mandatory respiratory protection	Self-filtering mask for gases, vapours and particles		EN 149:2001+A1:2009 EN 405:2001+A1:2009	Replace when an increase in breathing resistance is noticed and/or the smell or taste of the contaminant is detected.

C.- Specific hand protection.

Pictogram	PPE	Marking	CEN standards	Remarks
 Mandatory hand protection	Protective gloves against minimal risks			Replace gloves at any sign of deterioration. For prolonged periods of exposure to the product by professional/industrial users, the use of CE III gloves is recommended, in accordance with standards EN 420 and EN 374

- Since the product is a mixture of different materials, the resistance of the glove material cannot be calculated in advance with total reliability and therefore has to be checked before application.

D.- Eye and face protection

Pictogram	PPE	Marking	CEN standards	Remarks
 Mandatory face protection	Panoramic goggles against splashes and/or projections		EN 166:2001 EN ISO 4007:2012	Clean daily and disinfect periodically in accordance with the manufacturer's instructions. Use is recommended where there is a risk of splashes.

E.- Body protection

Pictogram	PPE	Marking	CEN standards	Remarks
	Work clothing			Replace at any sign of deterioration. For prolonged periods of exposure to the product by professional/industrial users, CE III is recommended, in accordance with standards EN ISO 6529:2001, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994
	Non-slip work footwear		EN ISO 20347:2012	Replace at any sign of deterioration. For prolonged periods of exposure to the product by professional/industrial users, CE III is recommended, in accordance with standards EN ISO 20345 and EN 13832-1

F.- Complementary emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2002	 Eyewash station	DIN 12 899 ISO 3864-1:2002

Environmental exposure controls:

By virtue of Community environmental protection legislation, it is recommended to avoid releasing both the product and its container into the environment. For additional information see section 7.1.D

Volatile organic compounds:

In application of R.D. 117/2003 and subsequent amendments (Directive 2010/75/EU), this product has the following characteristics:

V.O.C. (Supply):	0.01 % weight
V.O.C. concentration at 20 °C:	Not relevant
Average number of carbons:	12
Average molecular weight:	170 g/mol

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PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

For further information see the technical data sheet/product specification sheet.

Physical appearance:

Physical state at 20 °C:	Solid
Appearance:	Powdery
Colour:	Not determined
Odour:	Not determined
Odour threshold:	Not relevant *

Volatility:

Boiling point at atmospheric pressure:	Not relevant *
Vapour pressure at 20 °C:	Not relevant *
Vapour pressure at 50 °C:	<300000 Pa (300 kPa)
Evaporation rate at 20 °C:	Not relevant *

Product characterisation:

Density at 20 °C:	Not relevant *
Relative density at 20 °C:	Not relevant *
Dynamic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 40 °C:	Not relevant *
Concentration:	Not relevant *
pH:	Not relevant *
Vapour density at 20 °C:	Not relevant *
Partition coefficient n-octanol/water at 20 °C:	Not relevant *
Water solubility at 20 °C:	Not relevant *
Solubility property:	Not relevant *
Decomposition temperature:	Not relevant *
Melting point/freezing point:	Not relevant *
Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *

Flammability:

Flash point:	Not applicable
Flammability (solid, gas):	Not relevant *
Auto-ignition temperature:	Not relevant *
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *

Explosivity:

Lower explosive limit:	Not relevant *
Upper explosive limit:	Not relevant *

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STABILITY AND REACTIVITY.

10.1 Reactivity:

- No hazardous reactions are expected if the technical instructions for the storage of chemical products are followed. See section 7.

10.2 Chemical stability:

- Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

- Under the indicated conditions, no hazardous reactions that could produce excessive pressure or temperatures are expected.

10.4 Conditions to avoid:

- Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Heating	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Avoid direct exposure

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Incompatible	Forms silicates and calcium hydroxide	Not applicable	Not applicable	Salts of non-noble metals (Al, NH ₄ ,...)

10.6 Hazardous decomposition products:

- See sections 10.3, 10.4 and 10.5 for specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances may be released as a result: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

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TOXICOLOGICAL INFORMATION.

No experimental data are available on the product itself regarding toxicological properties

Hazardous effects on health:

In case of repeated or prolonged exposure, or at concentrations higher than those established by the occupational exposure limits, adverse effects on health may occur depending on the route of exposure:

Ingestion (acute effect):

Acute toxicity: In view of the available data, the classification criteria are not met, and the product does not contain substances classified as hazardous by ingestion. For more information see section 3.

Corrosivity/Irritation: Ingestion of a considerable dose may cause throat irritation, abdominal pain, nausea and vomiting.

Inhalation (acute effect):

Acute toxicity: In view of the available data, the classification criteria are not met, and the product does not contain substances classified as hazardous by inhalation. For more information see section 3.

Corrosivity/Irritation: Causes respiratory tract irritation, normally reversible and usually limited to the upper respiratory tract.

Contact with skin and eyes (acute effect):

Skin contact: Causes skin inflammation.

Contact with eyes: Causes significant eye damage after contact.

CMR effects (carcinogenicity, mutagenicity and reproductive toxicity):

Carcinogenicity: In view of the available data, the classification criteria are not met, and the product does not contain substances classified as hazardous for the effects described. For more information see section 3.

Mutagenicity: In view of the available data, the classification criteria are not met, and the product does not contain substances classified as hazardous for this effect. For more information see section 3.

Reproductive toxicity: In view of the available data, the classification criteria are not met, and the product does not contain substances classified as hazardous for this effect. For more information see section 3.

Sensitisation effects:

Respiratory: In view of the available data, the classification criteria are not met, and the product does not contain substances classified as hazardous with sensitising effects above the limits set out in point 3.2 of Regulation (EC) 2015/830. For more information see sections 2, 3 and 15.

Skin: Prolonged skin contact may lead to episodes of allergic contact dermatitis.

Specific target organ toxicity (STOT) - single exposure:

Causes respiratory tract irritation, normally reversible and usually limited to the upper respiratory tract.

Specific target organ toxicity (STOT) - repeated exposure:

Specific target organ toxicity (STOT) - repeated exposure: In view of the available data, the classification criteria are not met, and the product does not contain substances classified as hazardous for this effect. For more information see section 3.

Skin: In view of the available data, the classification criteria are not met, and the product does not contain substances classified as hazardous for this effect. For more information see section 3.

Aspiration hazard:

In view of the available data, the classification criteria are not met, and the product does not contain substances classified as hazardous for this effect. For more information see section 3.

Additional information:

Contact with damp skin, without adequate protection, may cause skin thickening, cracking or fissuring

Specific toxicological information on the substances:

Not determined

12**ECOLOGICAL INFORMATION.**

No experimental data are available on the mixture itself regarding ecotoxicological properties.

12.1 Toxicity:

Not determined

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

Not determined

12.4 Mobility in soil:

Not determined

12.5 Results of PBT and vPvB assessment:

The product does not meet the PBT/vPvB criteria

12.6 Other adverse effects:

Not described.

13**DISPOSAL CONSIDERATIONS.****13.1 Waste treatment methods.**

Code	Description	Waste type (Regulation (EU) No 1357/2014)
17 09 03*	Other construction and demolition waste (including mixed waste) containing hazardous substances	Hazardous

Waste type (Regulation (EU) No 1357/2014):

HP4 Irritant — skin irritation and eye lesions, HP5 Specific target organ toxicity (STOT)/Aspiration toxicity, HP13 Sensitising

Waste management (disposal and recovery):

Consult an authorised waste manager regarding recovery and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC, Law 22/2011). According to codes 15 01 (2014/955/EU), if the packaging has been in direct contact with the product, it will be managed in the same way as the product itself; otherwise it will be managed as non-hazardous waste. Discharge into watercourses is not recommended. See section 6.2.

Legislative provisions related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH), the Community or national provisions relating to waste management are listed.

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

National legislation: Law 22/2011, Royal Decree 180/2015

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TRANSPORT INFORMATION.

This product is not regulated for transport (ADR/RID, IMDG, IATA)

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REGULATORY INFORMATION.

15.1 Regulations/legislation specific for the substance or mixture on safety, health and environment:

Substances subject to authorisation in Regulation (EC) 1907/2006 (REACH): Not relevant

Substances included in Annex XIV of REACH (authorisation list) and expiry date: Not relevant

Regulation (EC) 1005/2009, on substances that deplete the ozone layer: Not relevant

Active substances included in Article 95 of Regulation (EU) No 528/2012: Not relevant REGULATION (EU) No 649/2012, concerning the export and import of hazardous chemicals: Not relevant

Restrictions on the marketing and use of certain hazardous substances and mixtures (Annex XVII of the REACH Regulation, etc ...):

Cement and mixtures containing cement may not be used or placed on the market if, once hydrated, their soluble chromium (VI) content is higher than 2 mg/kg (0.0002 %) of the total dry weight of the cement.

When reducing agents are used, and without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances and mixtures, suppliers shall ensure, prior to placing on the market, that the packaging of cement or of mixtures containing cement is visibly, legibly and indelibly marked with information on the date of packaging, as well as on the storage conditions and storage period appropriate to maintain the activity of the reducing agent and the soluble chromium (VI) content below the limit indicated in point 1. By way of exception, points 1 and 2 shall not apply to the marketing and use in controlled, closed and totally automated processes in which cement and mixtures containing cement are handled only by machines and in which there is no possibility of contact with the skin.

Specific provisions regarding the protection of people or the environment:

It is recommended to use the information compiled in this safety data sheet as input data for a risk assessment of local circumstances, in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 and all subsequent amendments.

15.2 Chemical safety assessment:

The supplier has not carried out a chemical safety assessment.

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OTHER INFORMATION.

Legislation applicable to safety data sheets:

This safety data sheet has been prepared in accordance with ANNEX II - Guide to the compilation of Safety Data Sheets of Regulation (EC) No 1907/2006 (Regulation (EU) No 2015/830)

Modifications with respect to the previous safety data sheet that affect risk management measures:

Not relevant

Texts of the legislative phrases referred to in section 2:

H315: Causes skin irritation

H318: Causes serious eye damage

H317: May cause an allergic skin reaction

H335: May cause respiratory irritation

Texts of the legislative phrases referred to in section 3:

The phrases indicated do not refer to the product itself; they are for information only and refer to the individual components appearing in section 3

Regulation No 1272/2008 (CLP):

Eye Dam. 1: H318 - Causes serious eye damage

Skin Irrit. 2: H315 - Causes skin irritation

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

STOT SE 3: H335 - May cause respiratory irritation

Classification procedure:

Skin Irrit. 2: Calculation method

Eye Dam. 1: Calculation method

Skin Sens. 1: Calculation method

STOT SE 3: Calculation method

Training advice:

Minimum training in occupational risk prevention is recommended for personnel who will handle this product, in order to facilitate understanding and interpretation of this safety data sheet, as well as of the product labelling.

Abbreviations and acronyms:

- **ADR:** European Agreement concerning the International Carriage of Dangerous Goods by Road
- **IMDG:** International Maritime Dangerous Goods Code
- **IATA:** International Air Transport Association
- **ICAO:** International Civil Aviation Organization
- **COD:** Chemical Oxygen Demand
- **BOD5:** Biochemical Oxygen Demand over 5 days
- **BCF:** Bioconcentration factor
- **LD50:** lethal dose 50
- **LC50:** lethal concentration 50
- **EC50:** effective concentration 50
- **Log POW:** logarithm of the octanol-water partition coefficient
- **Koc:** organic carbon partition coefficient