



VOLTECO Spa

FLEXOMIX 30

Revision n. 14.0

Revision date 05/03/2021

Printed on 05/03/2021

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SECTION 1. Identification of the substance/preparation and of the company/undertaking

1.1 Product identifier

Name FLEXOMIX 30

1.2. Identified relevant uses of the substance or mixture and non-recommended uses

Description/Use Modified polymer cement-based mortar with low modulus of elasticity

UFI 0YVX-7VAC-C20F-A95N

1.3. Supplier information of the safety data sheet

Company Name VOLTECO Spa
Address Via delle Industrie, 47
District and Country 31050 Ponzano Veneto (TV) – IT
Telephone +39 0422 9663
Fax +39 0422 966401
e-mail address of the person in charge of the safety data sheet volteco@volteco.it

1.4. Emergency telephone number

For urgent enquiries, please contact +39 0422 9663

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

The product is classified as dangerous pursuant to the provisions stipulated in EC Regulation No. 1272/2008 (CLP) as amended. The product requires a safety data sheet that complies with the provisions of EC Regulation No. 1907/2006 and subsequent amendments.

Any additional information concerning the risks for health and/or the environment are given in Sections 11 and 12 of this data sheet.

2.1.1 EC Regulation No. 1272/2008 as amended

Classification and hazard statements

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

2.2 Label elements

Hazard labelling pursuant to EC Regulation No. 1272/2008 (CLP) as amended.

Hazard pictograms



Warnings Hazard

Hazard statements

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

Precautionary tips

P261	Do not breathe dust/fumes/gas/mist/vapours/spray.
P280	Wear protective gloves/clothing, protect eyes/face.
P302+P352	IN CASE OF SKIN CONTACT: wash with plenty of water and soap.
P305+P351+P338	IN CASE OF EYE CONTACT: rinse thoroughly for several minutes. Remove any contact lenses if it is easy to do so. Continue rinsing.
P310	Immediately call a POISON CONTROL CENTRE or a doctor.

2.3 Other hazards

The cement, contained in the product, can irritate the eyes, mucous membranes, throat and the respiratory system and cause coughing.



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Frequent inhalation of cement for long periods of time increases the risk of developing lung diseases. Repeated and prolonged contact of the cement on damp skin, due to perspiration or humidity, can cause irritation and/or dermatitis. The cement contained in the product, in case of prolonged contact with skin, can cause sensitisation due to the presence of moderate quantities of water-soluble chromium VI. When suitable reducing substances are added to the product, the concentration remains below 0.0002 % (2 ppm) of the total dry weight of the cement, as long as the preparation is stored correctly (see Paragraphs 7 and 10) and is applied within the storage period specified on the bag. The cement does not fulfil the PBT or vPvB criteria, pursuant to Annex XIII of REACH (EC Regulation No. 1907/2006).

SECTION 3. Composition/information on ingredients

Name	CAS	EINECS	Conc.	Classification
Portland cement	65997-15-1	266-043-4	30 <= C < 50	Eye Dam. 1, H318 Skin Irrit. 2, H315 STOT SE 3, H335 Skin Sens. 1, H317
Crystalline silica ($\text{Ø} > 10 \mu\text{m}$)	14808-60-7	238-878-4	30 <= C < 60	-
Crystalline silica ($\text{Ø} < 10 \mu\text{m}$)	14808-60-7	238-878-4	Traces	STOT RE 2 H373

SECTION 4. First aid measures

4.1 Description of the first aid measures

Immediately remove any clothing soiled by the product.

Immediately remove victims from the danger zone.

If the patient feels unwell, seek medical attention and present this data sheet.

Contact with skin	Immediately wash with water and soap and rinse thoroughly. If the skin irritation persists, seek medical attention.
Contact with eyes	Rinse with running water for several minutes, keeping the eyelids open, and seek medical attention.
Swallowing	Rinse mouth with water. Do not induce vomiting. Seek medical attention and show them this information leaflet. Do not give anything to drink.
Inhalation	Move the person to a well-ventilated area and as a precaution, seek medical attention.

4.2 Main symptoms and effects, both acute and delayed

Skin	Cement can have an irritating effect on damp skin (due to sweating or humidity), following prolonged contact it can cause contact dermatitis following repeated contact.
Eyes	If the powder of the mixture (dry or wet) comes into contact with eyes, it may cause irritation or serious damage, potentially irreversible.
Swallowing	In case of accidental ingestion, the cement may ulcerate the digestive tract.
Inhalation	Repeated inhalation of cement powder over a long period of time increases the risk of lung diseases.

4.3 Indication of any immediate medical attention and special treatment needed

No other information is available.

SECTION 5. Fire-fighting measures

5.1 Extinguishing agents

The product is not flammable, in case of fires in the surrounding area, any form of fire extinction can be used.

5.2 Special hazards arising from the substance or mixture

The product is not combustible or explosive and it does not promote or feed the combustion of other materials.

5.3 Recommendations for those in charge of putting out fires

The product does not present fire-related risks.

No special protective equipment is required for the fire management staff.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

<i>For whoever is not working on it directly</i>	Make sure there is adequate ventilation. Keep dust levels to a minimum. People who do not wear any protective equipment must be kept at a safe distance. Avoid contact with skin, eyes and clothing - wear suitable protective equipment (see Point 8). Avoid inhaling dust - make sure that there is
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adequate ventilation or wear a protective mask/suitable protective equipment (see Point 8).

For whoever works on it directly

Keep dust levels to a minimum. Make sure there is adequate ventilation. People who do not wear any protective equipment must be kept at a safe distance. Avoid contact with skin, eyes and clothing - wear suitable protective equipment (see Point 8). Avoid inhaling dust - make sure that there is adequate ventilation or wear a protective mask/suitable protective equipment (see Point 8). Wear personal protective clothing.

6.2 Environmental precautions

Prevent the product from entering the drains, surface water, ground water and confined areas.

6.3 Methods and materials for containment and cleaning up

Make sure there is adequate ventilation.

Collect mechanically.

6.4 Reference to other sections

Refer to Chapter 7 for information on safe handling.

Refer to Chapter 8 for information on personal protective equipment.

Refer to Chapter 13 for information on disposal.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Protective measures

Follow the recommendations provided in Section 8.

To remove the dry product, see point 6.3.

Fire prevention measures

There is no need to adopt any precaution as the product is neither combustible nor flammable.

Measures to prevent the generation of aerosol and powder

Do not brush and do not use compressed air. Use dry cleaning methods (such as, for ex. vacuums and vacuum extractors), that do not cause the dust to spread through the air.

Environmental protection measure

As the material is being handled, avoid releasing it into the environment.

General information on hygiene in the workplace

Do not drink or eat in the work place in the areas where the product is handled, stored and bagged.

Wear dust masks and safety goggles in dusty environments.

Use protective gloves to avoid contact with skin.

7.2 Conditions for safe storage, including any incompatibility

The product must be stored in water-tight, dry (for ex. with minimal internal condensation), clean conditions and protected from contamination.

Keep the product out of the reach of children, away from acid agents, in designated closed containers (storage silos and bags), in cool and dry areas where there is no ventilation, to preserve the technical characteristics, always avoiding any leakage of the powder (see Point 10).

7.3 Specific end uses

No additional information for specific end uses (see Section 1.2).

SECTION 8. Exposure control/personal protection

8.1 Control parameters

Components with value ranges that need to be observed in the work place

Description	Type	State	TWA/8 h	TWA/8 h	STEL/15 min	STEL/15 min
-	-	-	mg/m ³	ppm	mg/m ³	ppm
Portland cement (inhalable fraction)	TLV-ACGIH	-	10	0	0	0
Portland cement (respirable fraction)	TLV-ACGIH	-	1	-	-	-
Crystalline silica (Ø>10 µm) (inhalable fraction)	TLV-ACGIH	-	10	0	0	0
Crystalline silica (Ø>10 µm) (respirable fraction)	TLV-ACGIH	-	3	-	-	-
Crystalline silica (Ø<10 µm) (respirable fraction)	TLV-ACGIH	-	0.025	-	-	-



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Description	Type	State	TWA/8 h	TWA/8 h	STEL/15 min	STEL/15 min
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8.2 Exposure controls

Since adequate technical equipment must always be given priority over personal protective equipment, make sure that there is good ventilation in the workplace by means of effective local extraction.

The personal protective equipment must comply with the applicable regulations below.

Hand protection	Protect your hands with Category II work gloves (ref. Directive 89/686/EC and Standard EN 374), such as those made of PVC, neoprene, nitrile or equivalent material. The following must be considered for the final selection of the glove material: degradation, break-through time and permeation. In the case of preparations, the resistance of the work gloves must be verified before use as it can be unpredictable. The gloves have a wear time limit that depends on the duration of exposure. Wash your hands before work and at the end of the work shift. After handling the product, use moisturising skin cream.
Eye protection	Wear protective airtight goggles (ref. Standard EN 166).
Skin protection	Wear long-sleeved overalls and safety footwear for professional use category II (ref. Directive 89/686/EC and Standard EN 344). Wash with soap and water after removing protective clothing.
Respiratory protection	Protect the respiratory tract if dust is generated (EN 143 P1 filter for particles). Provide for an eye wash and emergency shower system.
Environmental exposure controls	The emissions from the production processes, including those from the ventilation equipment, must be controlled, in observance of environmental protection regulations.

SECTION 9. Physical and chemical properties

9.1 Information on the basic physical and chemical properties

Description	Values
Physical state	Powder
Colour	Grey
pH	12 (mixed product)
Melting or freezing point	Not available.
Initial boiling point	Not available.
Boiling range	Not available.
Flash point	Not flammable
Flammability of solids and gases	Not available.
Evaporation rate	Not available.
Lower flammability limit	Not available.
Upper flammability limit	Not available.
Lower explosivity limit	Not available.
Upper explosivity limit	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Apparent density	1.3 - 1.6 kg/l
Solubility	Partially mixable It hardens in contact with water.
Partition coefficient n-octanol/water	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.
Decomposition temperature	Not available.
Auto-ignition temperature	Not available.

SECTION 10. Stability and reactivity

10.1 Reactivity

The product hardens when mixed with water, thereby forming a stable mass that does not react with the environment.

10.2 Chemical stability

The product is stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions



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No dangerous reactions are expected under normal conditions of use and storage.

10.4 Conditions to be avoided

None in particular.

Nonetheless, always observe the usual precautions that apply to chemical products.

10.5 Incompatible materials

Information not available.

10.6 Hazardous decomposition products

Information not available.

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

Name of product/ingredient	CAS	Type	Species	Dose
Portland cement	65997-15-1	LD50 Cutaneous	Rat	> 2000 mg/kg

Primary irritant

Contact with skin Irritant to the skin and mucous membranes.

Contact with eyes Strongly irritant with the risk of serious eye injury

Sensitisation Refer to Chapter 3.

Additional toxicological information

The product poses the following risks, in accordance with the last version of the General Classification Guideline for Preparations of the EU: **Irritant**.

SECTION 12. Ecological information

12.1 Ecotoxicity

Leaking large quantities of product into water can lead to an increase in the pH levels and, in given circumstances, can therefore be toxic for aquatic life.

12.2 Persistence and degradability

Information not available.

12.3 Bioaccumulative potential

Information not available.

12.4 Mobility in the soil

Information not available.

12.5 Results of the PBT and vPvB evaluation

Based on available data, the product does not contain PBT or vPvB substances in percentages exceeding 0.1%.

12.6 Other adverse effects

Information not available.

SECTION 13. Disposal considerations

13.1 Waste processing methods

It must not be disposed of with normal waste.

Do not dispose of in sewers.

Disposal must be performed through an authorised facility, in compliance with national and local regulations.

13.2 Contaminated packaging

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

Suitable cleaning agents: Water (with detergent). Collect wash water and dispose of it.

SECTION 14. Transport information

The product is not classified as dangerous in accordance with the provisions in force concerning transport of dangerous goods by road (ADR) and by Rail (RID), by sea (IMDG Code) and by air (IATA).



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SECTION 15. Regulatory information

15.1 Specific standards and regulations on health, safety and environment for the substance or mixture

Health controls

Workers exposed to this chemical, which is a health hazard, must undergo health checks for the health monitoring carried out in accordance with the provisions of Art. 41 of Legislative Decree 09/04/2008 No. 81 unless the hazard posed to the health and safety of the worker has been assessed as irrelevant, in accordance with Art. 224 Paragraph 2.

EC regulation No. 1907/2006 on the registration, evaluation, authorisation and restriction of chemicals (REACH), in Annex XVII, Point 47, as amended by EC Regulation No. 552/2009, states that cement and cement-containing preparations shall not be used or placed on the market, if they contain, when hydrated, more than 0,0002 % (2ppm) soluble chromium VI of the total dry weight of the cement.

Observance of this limit is guaranteed by the use of a reducing agent additive in the cement, which is effective for a pre-determined period of time and under the constant observance of suitable storage methods (set forth in Points 7.2 and 0.2).

Pursuant to the above Regulation, the use of the reducing agent requires the following information to be advertised:

- Packaging date: printed on bag
- preservation conditions (*): preserve in closed bags on intact pallets in dry and unventilated place
- preservation period (*): specified on the bag

(*) to maintain the activity of the reducing agent

15.2 Chemical safety assessment

No chemical safety assessment has been conducted for the mixture and the substances contained in it.

SECTION 16. Other information

Text of hazard (H) phrases mentioned in Sections 2-3 of the data sheet:

Eye Dam. 1	Serious eye damage, Category 1
STOT SE 3	Specific toxicity for target organs - Single exposure, Category 3
STOT RE 2	Specific toxicity for target organs - Repeated exposure, Category 2
Skin Irrit. 2	Causes skin irritation, Category 2.
Skin Sens. 1	Skin sensitisation, Category 1
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May irritate the respiratory tract.
H373	May cause damage to organs in the event of prolonged or repeated exposure.

Abbreviations and acronyms

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- CAS NUMBER: Chemical Abstract Service NUMBER
- CE50: Concentration that causes effect to 50% of the population subjected to a test
- CE NUMBER: Identification NUMBER in ESIS (European archive of existing substances)
- CLP: Classification, Labelling, Packaging (EC Regulation No. 1272/2008)
- DNEL: Derived no effect level
- EmS: Emergency Schedule
- GHS: Global harmonised system to classify and label Chemical products
- IATA DGR: Regulations to transport Dangerous Goods of the International Air transport Association
- IC50: Concentration that immobilises 50% of the population subjected to a test
- IMDG: International maritime code for transport of Dangerous Goods
- IMO: International maritime Organization
- INDEX NUMBER: INDEX NUMBER of Annex VI of the CLP
- LC50: Lethal concentration for 50% of the test population
- LD50: Lethal dose for 50% of the test population
- OEL: EU occupational exposure limit value
- PBT: Persistent bioaccumulative and toxic according to REACH
- PEC: Predicted environmental concentration
- PEL: Predictable exposure level
- PNEC: Predicted no-effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
- TLV: occupational exposure threshold limit value
- TLV CEILING: concentration that must Not be exceeded during any time of working exposure



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- TWA STEL: Short time exposure limit
- TWA: 8-hour time-weighted average exposure limit
- VOC: Volatile organic compound
- vPvB: Very Persistent and Very bioaccumulative according to REACH

GENERAL BIBLIOGRAPHY

- EC Regulation No. 1907/2006 of the European Parliament (REACH)
- EC Regulation No. 1272/2008 of the European Parliament (CLP)
- EC Regulation No. 790/2009 of the European Parliament (I Atp. CLP)
- EC Regulation No. 453/2010 of the European Parliament
- EC Regulation No. 286/2011 of the European Parliament (II Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- Niosh - Registry of Toxic Effects of Chemical Substances
- INRS - Fiche Toxicologique
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials - 7 Ed., 1989
- ECHA Agency website

Note for the user

The information contained in this data sheet is based on the knowledge available to us at the date of the last version.

The user must verify the suitability and completeness of the information according to each specific use of the product.

This document must not be considered a guarantee of any specific property of the product.

Since product use is not subject to our direct control, the user is obliged, under his own responsibility, to comply with the health and safety regulations and laws in force. We accept no responsibility for improper use.

We accept no responsibility for improper use.

Provide adequate training to people in charge of using chemical products.