

## Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

#### 1.1. Product identifier

Code: SPY15  
Product name: SPIDY 15

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

Intended use: Pre-mixed cementitious, fibre-reinforced, rapid-setting thixotropic

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

Name: VOLTECO S.p.A  
Full address: via delle industrie 47  
District and Country: 31050 Ponzano Veneto (TV)  
Italia  
Tel.: 04229663  
e-mail address of the competent person responsible for the Safety Data Sheet: volteco@volteco.it

#### 1.4. Emergency telephone number

For urgent inquiries refer to:  
+39 06 68593726 (CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA - Roma - 00165)  
+39 800183459 (Az. Osp. Univ. Foggia - Foggia - 71222)  
+39 081 7472870 (Az. Osp. "A. Cardarelli" - Napoli - 80131)  
+39 06 49978000 (CAV Policlinico "Umberto I" - Roma - 161)  
+39 06 3054343 (CAV Policlinico "A. Gemelli" - Roma - 168)  
+39 055 7947819 (Az. Osp. "Careggi" U.O. Tossicologia Medica - Firenze - 50134)  
+39 0382 24444 (CAV Centro Nazionale di Informazione Tossicologica - Pavia - 27100)  
+39 02 66101029 (Osp. Niguarda Ca' Granda - Milano - 20162)  
+39 800883300 (Azienda Ospedaliera Papa Giovanni XXII - Bergamo - 24127)

### SECTION 2. Hazards identification

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

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

Hazard classification and indication:

Skin corrosion, category 1	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



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### SECTION 2. Hazards identification ... / >>

Signal words: Danger

Hazard statements:

**H314** Causes severe skin burns and eye damage.  
**H335** May cause respiratory irritation.  
**H317** May cause an allergic skin reaction.

Precautionary statements:

**P260** Do not breathe dust / fume / gas / mist / vapours / spray.  
**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
**P280** Wear protective gloves/ protective clothing / eye protection / face protection.  
**P310** Immediately call a POISON CENTER / doctor / . . .  
**P264** Wash . . . thoroughly after handling.

**Contains:** PORTLAND CEMENT  
CALCIUM HYDROXIDE

#### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

### SECTION 3. Composition/information on ingredients

#### 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
<b>PORTLAND CEMENT</b>		
INDEX	$20 \leq x < 30$	<b>Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, Skin Sens. 1 H317</b>
EC 266-043-4		
CAS 65997-15-1		
<b>CALCIUM HYDROXIDE</b>		
INDEX	$1 \leq x < 3$	<b>Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335</b>
EC 215-137-3		
CAS 1305-62-0		
REACH Reg. 01-2119475151-45-xxxx		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

### SECTION 4. First aid measures

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

#### SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

#### UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

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

#### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products. The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

#### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## SECTION 6. Accidental release measures

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

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Use breathing equipment if powders are released into the air.

### 6.2. Environmental precautions

Avoid the formation of powder and dispersion of the product in the air.

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

Collect the leaked product and place it in containers for recovery or disposal. Make sure the leakage site is well aired. It may be advisable to wash with water any surfaces contaminated with traces of dust, without contaminating waste water.

#### PORTLAND CEMENT

##### Dry concrete

Use dry cleaning methods such as vacuum cleaners or extractors (portable industrial units, equipped with high efficiency particulate filters or equivalent techniques), which do not disperse dust into the environment. Never use compressed air.

Ensure workers wear appropriate personal protective equipment (see Section 8) and prevent the spread of cement dust.

Avoid inhaling cement dust and contact with skin.

Deposit the spilled material in containers (e.g. silos, hoppers, etc.) for future use.

##### Wet concrete

Remove the wet cement and place it in a container. Allow the material to dry and solidify before disposing of it as described in Section 13.

### 6.4. Reference to other sections

Notify the competent authorities if the product has reached waterways or if it has contaminated the ground or vegetation.

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

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SECTION 7. Handling and storage ... / >>

PORTLAND CEMENT

Risk of burial: Cement can thicken or stick to the walls of the confined space in which it is stored. Concrete can cave in, collapse or fall unexpectedly. To prevent burial or suffocation, do not enter confined spaces, such as. silos, containers, bulk transport trucks, or other storage containers or containers that store or contain cement, without adopting appropriate safety measures. Do not use aluminum containers for the storage or transport of wet mixtures containing cement due to the incompatibility of the materials.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2022

CALCIUM HYDROXIDE

Threshold Limit Value							
Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	1		2 (C)		INHAL	
MAK	DEU	1		2		INHAL	
VLA	ESP	1		4			
VLEP	FRA	1		4			
GVI/KGVI	HRV	1		4		RESP	
VLEP	ITA	1		2		RESP	
TGG	NLD	1		4		RESP	
TLV	ROU	1		4		RESP	
MV	SVN	1		4			
WEL	GBR	5				INHAL	
WEL	GBR	1		4		RESP	
OEL	EU	1		4		RESP	
TLV-ACGIH		5					

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,49	mg/cm2
Normal value in marine water	0,32	mg/cm2
Normal value of STP microorganisms	3	mg/cm2

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation	4		1		4		1	
	mg/m3		mg/m3		mg/m3		mg/m3	

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

EPY 11.5.2 - SDS 1004.14

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### SECTION 8. Exposure controls/personal protection ... / >>

During the risk assessment process, it is essential to take into consideration the ACGIH occupational exposure levels for inert particulate not otherwise classified (PNOC respirable fraction: 3 mg/m<sup>3</sup>; PNOC inhalable fraction: 10 mg/m<sup>3</sup>). For values above these limits, use a P type filter, whose class (1, 2 or 3) must be chosen according to the outcome of risk assessment.

#### PORTLAND CEMENT

The time-weighted threshold limit value (TLV-TWA) adopted in working environments by the Association of American Industrial Hygienists (ACGIH) for cement is equal to 1 mg/m<sup>3</sup> (respirable fraction).

For the indication of the exposure level (DNEL = Derived no-effect level) we have:

DNEL (respirable fraction): 1 mg/m<sup>3</sup>

DNEL (skin): not applicable

DNEL (ingestion): not relevant

As regards the environmental risk assessment (PNEC = predictable no-effect concentration), we have:

PNEC (water): not applicable

PNEC (sediment): not applicable

PNEC (soil): not applicable

In relation to the possible presence of respirable free crystalline silica, the professional user must respect the professional exposure limits to respirable crystalline silica in 8 working hours (OEL (EU) equal to 0.1 mg/m<sup>3</sup> (respirable fraction, 8h) VLEP (IT) equal to 0.1 mg/m<sup>3</sup> (respirable fraction, 8h) – Annex XLIII Legislative Decree 81/2008).

The American Conference of Governmental Industrial Hygienist (ACGIH) recommends a threshold value of 0.025 mg/m<sup>3</sup>.

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).

Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

#### SKIN PROTECTION

Wear category III professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

Use a type P filtering facemask, whose class (1, 2 or 3) and effective need, must be defined according to the outcome of risk assessment (see standard EN 149).

#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

#### PORTLAND CEMENT

General: In plants where cement is handled, transported, loaded and unloaded and stored, suitable measures must be adopted for the protection of workers and for the containment of releases into the workplaces. If possible, avoid kneeling on fresh mortar or concrete. However, if it is absolutely necessary, suitable waterproof personal protective equipment must be worn.

Do not eat, drink or smoke while handling the cement to avoid contact with your skin or mouth.

Immediately after handling/manipulating the cement or materials containing it, it is necessary to wash with neutral soap or an adequate light detergent or use moisturizing creams. Dispose of clothes contaminated, footwear, glasses, etc. and clean them completely before using them again.

##### a) Eye/face protection

Wear safety glasses or masks compliant with UNI EN 166 when handling dry cement or its wet preparations to prevent contact with eyes.

##### b) Skin protection

Use gloves with mechanical resistance to abrasion according to EN ISO 388 with nitrile or neoprene coating, preferably ¾ or totally in case of more demanding activities. In the event of possible contact with the wet mixture, use a glove with specific chemical protection according to EN ISO 374 with specific thickness and degree of permeation (in particular to alkalis) based on the type of use (immersion or possible accidental contact). Always change damaged or soaked gloves immediately. In some circumstances, such as when laying concrete or screed, waterproof trousers or knee pads are required.

##### c) Respiratory protection

When a person is potentially exposed to dust levels above the exposure limits, use appropriate respiratory protection commensurate with the level of dustiness and compliant with the relevant EN standards (for example filtering facepiece certified according to UNI EN 149).

## SECTION 9. Physical and chemical properties

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

Properties	Value	Information
Appearance	powder	
Colour	grey	
Odour	not available	
Melting point / freezing point	not applicable	
Initial boiling point	> 1250 °C	
Flammability	not available	
Lower explosive limit	not applicable	
Upper explosive limit	not applicable	
Flash point	not applicable	Reason for missing data:la sostanza non è infiammabile
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	11 - 13,2	
Kinematic viscosity	not applicable	
Solubility	slightly soluble	
Partition coefficient: n-octanol/water	not applicable	
Vapour pressure	not applicable	
Density and/or relative density	2,9 - 3,2 g/cm3	
Relative vapour density	not available	
Particle characteristics	not available	

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

Information not available

#### 9.2.2. Other safety characteristics

Information not available

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

#### PORTLAND CEMENT

When mixed with water, cement hardens into a stable mass that does not react with the environment.

### 10.2. Chemical stability

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

#### PORTLAND CEMENT

Concrete as it is is stable for longer the more it is stored appropriately (see Section 7) and is compatible with almost all construction materials. It must be kept dry. Contact with incompatible materials must be avoided.

Wet cement is alkaline and incompatible with acids, ammonium salts, aluminum and other non-noble metals.

Cement, in contact with hydrofluoric acid, decomposes producing corrosive silicon tetrafluoride gas.

Cement reacts with water and forms silicates and calcium hydroxide. Silicates react with powerful oxidants such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride and oxygen bifluoride.

The integrity of the packaging and compliance with the storage methods mentioned in Section 7 (special closed containers, cool, dry place and absence of ventilation) are essential conditions for the maintenance of the effectiveness of the reducing agent in the storage period specified on the DDT or on the individual bag.

### 10.3. Possibility of hazardous reactions

The powders are potentially explosive when mixed with air.

#### PORTLAND CEMENT

Cement does not cause dangerous reactions

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### SECTION 10. Stability and reactivity ... / >>

#### CALCIUM HYDROXIDE

Develops: carbon oxides.

#### 10.4. Conditions to avoid

Avoid environmental dust build-up.

#### PORTLAND CEMENT

Humid conditions during storage can cause lump formation and loss of product quality product.

#### 10.5. Incompatible materials

#### PORTLAND CEMENT

Wet cement is alkaline and incompatible with acids, ammonium salts, aluminum and other metals not noble.

#### 10.6. Hazardous decomposition products

#### PORTLAND CEMENT

Cement does not decompose into any hazardous products.

### SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

##### Metabolism, toxicokinetics, mechanism of action and other information

Information not available

##### Information on likely routes of exposure

Information not available

##### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

##### Interactive effects

Information not available

##### ACUTE TOXICITY

ATE (Inhalation) of the mixture:

Not classified (no significant component)

ATE (Oral) of the mixture:

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

##### CALCIUM HYDROXIDE

LD50 (Dermal):

> 2500 mg/kg Coniglio

LD50 (Oral):

> 2000 mg/kg Ratto

##### PORTLAND CEMENT

Acute toxicity - dermal - Limit test on rabbit, 24 hour contact, 2,000 mg/kg body weight - non-lethal. Based on available data, it does not meet the classification criteria.

Acute toxicity - inhalation - No acute inhalation toxicity observed. Based on available data, it does not meet the classification criteria.

Acute toxicity - oral - No indications of oral toxicity from studies with cement kiln dust. Based on available data, it does not meet the classification criteria

##### SKIN CORROSION / IRRITATION

Corrosive for the skin

Classification according to the experimental Ph value

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### SECTION 11. Toxicological information ... / >>

#### PORTLAND CEMENT

Cement in contact with moist skin can cause thickening, cracking and splitting of the skin. Prolonged contact in combination with existing abrasions can cause severe burns.

Some individuals may develop eczema following exposure to moist cement dust, caused by the high pH which can induce irritant contact dermatitis after prolonged contact.

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

#### PORTLAND CEMENT

Portland cement clinker caused a mix of heterogeneous effects on the cornea and the calculated irritation index was 128.

Direct contact with the cement can cause corneal lesions due to mechanical stress, immediate or delayed irritation or inflammation.

Direct contact with large quantities of dry concrete or splashes of wet concrete can cause effects ranging from moderate eye irritation (e.g. conjunctivitis or blepharitis) to chemical burns and blindness.

#### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

#### Respiratory sensitization

#### PORTLAND CEMENT

There are no indications of sensitization of the respiratory system. Based on available data, it does not meet the classification criteria.

#### Skin sensitization

#### PORTLAND CEMENT

Some individuals may develop eczema following exposure to wet concrete dust, caused by an immunological reaction to water-soluble Cr(VI) that causes allergic contact dermatitis.

The response can appear in a variety of forms that can range from a mild rash to severe dermatitis.

No sensitizing effect is expected if the cement contains a water-soluble Cr(VI) reducing agent until the indicated period of effectiveness of such reducing agent is exceeded

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### PORTLAND CEMENT

No indication. Based on available data, it does not meet the classification criteria.

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

#### PORTLAND CEMENT

No causal association has been established between exposure to Portland cement and cancer. The epidemiological literature does not support the identification of Portland cement as a suspected human carcinogen. Portland cement is not classifiable as a human carcinogen (according to ACGIH A4: Agents which cause concern about being carcinogenic to humans but which cannot be definitively assessed due to lack of data. In vitro studies or on animals do not provide indications of carcinogenicity that are sufficient to classify the agent with one of the other notations). Based on available data, it does not meet the classification criteria.

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

#### PORTLAND CEMENT

Based on available data, it does not meet the classification criteria.

#### STOT - SINGLE EXPOSURE

May cause respiratory irritation

#### PORTLAND CEMENT

Cement dust can irritate the throat and respiratory system. Coughing, sneezing and shortness of breath may occur following exposures above the occupational exposure limits. Overall, the evidence collected clearly indicates that occupational exposure to cement dust has produced deficits in respiratory function. However, the available evidence is currently insufficient to establish with certainty the dose-response relationship for these effects.

#### STOT - REPEATED EXPOSURE



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### SECTION 11. Toxicological information ... / >>

Does not meet the classification criteria for this hazard class

#### PORTLAND CEMENT

Long-term exposure to respirable cement dust above the occupational exposure limit can lead to coughing, shortness of breath and chronic obstructive changes in the respiratory tract. No chronic effects were observed at low concentrations. Based on available data, the classification criteria are not met.

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

#### PORTLAND CEMENT

Not applicable as cement is not used as an aerosol.

#### 11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

#### CALCIUM HYDROXIDE

Questa sostanza non ha proprietà di interferenza con il sistema endocrino

### SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

#### 12.1. Toxicity

##### CALCIUM HYDROXIDE

LC50 - for Fish	50,6 mg/l/96h
EC50 - for Crustacea	49,1 mg/l/48h
EC50 - for Algae / Aquatic Plants	184,57 mg/l/72h
Chronic NOEC for Crustacea	32 mg/l 14d
Chronic NOEC for Algae / Aquatic Plants	48 mg/l 72h

#### 12.2. Persistence and degradability

##### CALCIUM HYDROXIDE

Solubility in water	1000 - 10000 mg/l
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#### 12.3. Bioaccumulative potential

Information not available

#### 12.4. Mobility in soil

Information not available

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

##### CALCIUM HYDROXIDE

In base ai dati disponibili, il prodotto non contiene sostanze PBT/vPvB in percentuale  $\geq$  a 0,1%

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

#### 12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

#### 12.7. Other adverse effects

Information not available

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### SECTION 13. Disposal considerations

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

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

##### CONTAMINATED PACKAGING

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

##### CEMENTO ALLUMINOSO

Se il prodotto è stato addizionato con acqua disporne come calcestruzzo, quindi consegnarlo ai servizi di raccolta di rifiuti speciali o portarli ad un punto di

raccolta di rifiuti speciali. Dal contenitore rimuovete il prodotto secco ed eventuali resti di prodotto che potrebbero esservi attaccati.

È sconsigliato lo smaltimento attraverso acque reflue. Eventualmente riutilizzare in base alle considerazioni sulla durata di conservazione e all'obbligo di

evitare l'esposizione alla polvere. In caso di smaltimento, indurire con acqua e smaltire secondo 13.3.

Lasciare indurire, evitare l'ingresso nei sistemi fognari e di drenaggio o in corpi idrici (ad esempio flussi) e smaltire come indicato in 13.3.

Smaltire secondo la legislazione locale. Evitare l'ingresso nel sistema di acque fognarie. Smaltire il prodotto indurito come rifiuto di calcestruzzo. A causa

dell'inertizzazione, i rifiuti concreti non sono pericolosi.

Svuotare completamente l'imballaggio ed elaborarlo secondo la legislazione locale.

### SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### 14.1. UN number or ID number

not applicable

#### 14.2. UN proper shipping name

not applicable

#### 14.3. Transport hazard class(es)

not applicable

#### 14.4. Packing group

not applicable

#### 14.5. Environmental hazards

not applicable

#### 14.6. Special precautions for user

not applicable

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

Information not relevant

### SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU:

None

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### SECTION 15. Regulatory information ... / >>

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006  
None

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors  
not applicable

Substances in Candidate List (Art. 59 REACH)  
On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH)  
None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:  
None

Substances subject to the Rotterdam Convention:  
None

Substances subject to the Stockholm Convention:  
None

#### Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### CEMENTO ALLUMINOSO

Categoria Seveso - Direttiva 2012/18/UE: Nessuna

Restrizioni relative al prodotto o alle sostanze contenute secondo l'Allegato XVII Regolamento (CE) 1907/2006

Nessuna

Regolamento (UE) 2019/1148 - relativo all'immissione sul mercato e all'uso di precursori di esplosivi

Non applicabile

Sostanze in Candidate List (Art. 59 REACH)

In base ai dati disponibili, il prodotto non contiene sostanze SVHC in percentuale  $\geq$  a 0,1%.

Sostanze soggette ad autorizzazione (Allegato XIV REACH)

Nessuna

Sostanze soggette ad obbligo di notifica di esportazione Regolamento (UE) 649/2012:

Nessuna

Sostanze soggette alla Convenzione di Rotterdam:

Nessuna

Sostanze soggette alla Convenzione di Stoccolma:

Nessuna

Controlli Sanitari

Informazioni non disponibili

Classificazione per l'inquinamento delle acque in Germania (AwSV, vom 18. April 2017)

WGK 3: Molto pericoloso per le acque

### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

### SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

<b>Skin Corr. 1</b>	Skin corrosion, category 1
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Skin Sens. 1</b>	Skin sensitization, category 1
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H318</b>	Causes serious eye damage.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H317</b>	May cause an allergic skin reaction.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate

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### SECTION 16. Other information ... / >>

- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
  4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
  12. Regulation (EU) 2016/1179 (IX Atp. CLP)
  13. Regulation (EU) 2017/776 (X Atp. CLP)
  14. Regulation (EU) 2018/669 (XI Atp. CLP)
  15. Regulation (EU) 2019/521 (XII Atp. CLP)
  16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
  17. Regulation (EU) 2019/1148
  18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
  19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
  20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
  21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
  22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

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Provide appointed staff with adequate training on how to use chemical products.

### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.