

SAFETY DATA SHEET

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended]



Construction
Products Group
Europe



Flowcrete



Date of issue: 31.07.2023

version:1.0/EN

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: **FLOWFRESH/FLOWCRETE PRIMER PART C**
Chemical name: calcium dihydroxide
CAS number: 1305-62-0
Registration number: 01-2119475151-45-0000

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

Relevant identified uses: floor filler.
Uses advised against: not determined.

1.3 Details of the supplier of the safety data sheet

Manufacturer: **TREMCO CPG POLAND Sp. z o.o.**
Address: ul. Marywilska 34, 03-228 Warszawa, Poland
Telephone/Fax number: +48 22 879 8907, +48 22 879 8918
E-mail address for a competent person responsible for SDS: aleksandra.matyjek@cpg-europe.com

1.4 Emergency telephone number

112

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Skin Irrit. 2 H315, Eye Dam. 1 H318, STOT SE 3 H335

Causes skin irritation. Causes serious eye damage. May cause respiratory irritation.

2.2 Label elements

Hazard symbols and statements



DANGER

Hazard statement

H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.

Precautionary statement

P260 Do not breathe dust. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P501 Dispose of contents/container to properly labelled waste containers according to national law.

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2.3 Other hazards

The substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation. The substance is not identified as having endocrine disrupting properties.

Section 3: Composition/information on ingredients

3.1 Substances

calcium dihydroxide

Range of percentages: 100 %

CAS number: 1305-62-0

EC number: 215-137-3

Index number: —

Registration number: 01-2119475151-45-0000

Classification: Skin Irrit. 2 H315, Eye Dam. 1 H318, STOT SE 3 H335

Substance with a specific value at the European Union level of the permissible concentration in the work environment.

Full text of each relevant H phrase is given in section 16 of SDS.

Section 4: First aid measures

4.1 Description of first aid measures

Skin contact: take off contaminated clothing. Wash out the contaminated skin thoroughly with plenty of water. If disturbing symptoms occur, consult a doctor.

Eye contact: protect non-irritated eye, remove contact lenses. Flush the contaminated eyes thoroughly with water for 10-15 minutes with eyelids wide open. Avoid powerful water stream – risk of cornea damage. Put a sterile dressing. Immediately consult a doctor.

Ingestion: do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a doctor – show the container or label.

Inhalation: remove casualty to fresh air, keep the victim warm and calm. If disturbing symptoms occur, consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: redness, dryness, irritation.

Eye contact: redness, tearing, burning sensation, blurred vision, pain, risk of serious damage to eyes.

Ingestion: stomach ache, nausea and vomiting.

Inhalation: possible respiratory tract irritation, cough.

4.3 Indication of any immediate medical attention and special treatment needed

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Symptomatic treatment.

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Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: CO₂, extinguishing powder, foam. Adapt extinguishing measures to the surrounding materials.

Unsuitable extinguishing media: water jet – risk of the propagation of the flame.

5.2 Special hazards arising from the substance or mixture

During the fire, may produce harmful gases containing carbon oxides and other hazardous products of thermal decomposition. Do not inhale combustion products, they can be dangerous for human health.

5.3 Advice for firefighters

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. Collect the used extinguishing agents.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. In case of release of large amounts of the product, isolate the exposed area. Ensure that only the trained personnel removes the effects of the accident. Use personal protective equipment. Avoid eyes and skin contamination. Ensure adequate ventilation. Do not inhale product dust.

6.2 Environmental precautions

In case of release of large amounts of the mixture, it is necessary to take appropriate steps to prevent it from spreading into the environment. Notify relevant emergency services.

6.3 Methods and material for containment and cleaning up

Collect the released product mechanically, avoiding dusting, use dry cleaning methods such as vacuuming and place in properly labeled containers. Treat the collected material as waste. Clean and ventilate the contaminated area properly.

6.4 Reference to other sections

Appropriate conduct with waste product – section 13.
Personal protective equipment – section 8.

Section 7: Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Before break and after work wash hands. Wear personal protective equipment. Avoid eyes and skin contamination. Use only in a well-ventilated area. Avoid formation and inhalation of dusts.

7.2 Conditions for safe storage, including any incompatibilities

Store only in original, tightly closed containers, in a dry, cool and well-ventilated area. Do not store with food or feed for animals. Protect from damage, direct influence of atmospheric conditions and moisture. Opened containers should be resealed. Keep the unused containers tightly closed.

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7.3 Specific end use(s)

No information about other uses than those mentioned in subsection 1.2.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Specification	Limit values		Notation
	8 hours	Short term	
calcium dihydroxide [CAS 1305-62-0] - respirable fraction	1 mg/m ³	4 mg/m ³	—

Legal Basis: 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU.

Please check any national occupational exposure limit values in your country.

Recommended control procedures

Procedures for monitoring concentrations of hazardous components in the air and procedures for monitoring air purity in the workplace should be applied - if available and justified at a given position - in accordance with the relevant national or European Standards, taking into account the conditions at the site of exposure and the appropriate measurement methods adapted to the working conditions. The mode, type and frequency of tests and measurements should meet the requirements of the appropriate laws.

DNEL values

calcium dihydroxide [CAS 1305-62-0]

worker, inhalation, short-term, local exposure 4 mg/m³

worker, inhalation, long-term local exposure 1 mg/m³

consumer, inhalation, short-term local exposure 4 mg/m³

consumer, inhalation, long-term local exposure 1 mg/m³

PNEC values

calcium dihydroxide [CAS 1305-62-0]

fresh water 0,49 mg/dm³

marine water 0,32 mg/dm³

sewage treatment plant 3 mg/dm³

soil 1080 mg/kg d.w.

8.2 Exposure controls

Appropriate engineering controls

Use the product in accordance with good occupational hygiene and safety practices. Do not eat, drink or smoke when handling the product. Before break and after work wash hands carefully. Avoid eyes and skin contamination. Effective general ventilation and/or local ventilation should be provided to keep air contamination below current exposure limit values. Eyewash stations should be installed near the working place.

Individual protection measures, such as personal protective equipment

The necessity to use and selection of appropriate personal protective equipment should take into account the type of risk posed by the product, working conditions and the way of handling the product. The personal protective equipment used must meet the requirements of Regulation (EU) 2016/425 and the relevant standards. The employer is obliged to provide protection measures appropriate to the activities performed and meeting all quality requirements, including their maintenance and cleaning. Any contaminated or damaged PPE must be replaced immediately.

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Hand and body protection

Use protective gloves (EN 374) suitable for the task being performed. In the case of short-term contact use protective gloves on the level of effectiveness of 2 or more (breakthrough time > 30 min.). For prolonged contact use protective gloves on the level of effectiveness of 6 (breakthrough time > 480 min.). Recommended glove material: nitrile (NBR) (thickness ≥ 0.2 mm). Wear protective clothing.

When using protective gloves during work with chemical products, it should be noted that the efficacy levels and corresponding breakthrough times do not indicate actual times of protection at a particular workplace, because the protection can be affected by many factors, e.g. temperature, other substances etc. If there are any signs of degradation, damage or change in appearance (colour, flexibility, shape), it is recommended to replace the gloves with a new pair. Please follow the manufacturer's instructions, not only in terms of gloves' usage, but also in terms of their cleaning, maintenance and storage. It is also important to know how to take off the gloves in order to avoid hands contamination.

Eye protection

Wear protective glasses or face protection (EN 166).

Respiratory protection

In case of particulate air pollution, when the dust concentrations exceed the normative values, filtering equipment selected in accordance with the multiplicity of exceeded the occupational exposure limit values must be used (P1/is applied in case of particulate concentration no more than 4 x the occupational exposure limit values, P2/is applied in case of particulate concentration no more than 10 x the occupational exposure limit values, P3/is applied in case of particulate concentration no more than 30 x the occupational exposure limit values).

Thermal hazards

Do not occur.

Environmental exposure controls

Do not allow the large amounts of the product to contaminate ground water, drains, canalization or soil. Possible emissions from the ventilation systems and processing equipment should be controlled in order to determinate their compatibility with environmental protection regulations.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state :	solid, powder
Colour:	white/ beige
Odour:	odourless
Melting point/freezing point:	> 450 °C
Boiling point or initial boiling point and boiling range:	not applicable
Flammability:	not applicable, product is not flammable
Lower and upper explosion limit:	not determined
Flash point:	not determined
Auto-ignition temperature:	not applicable, product is not subject to auto-ignition
Decomposition temperature:	> 450 °C
pH:	12,3 (saturated solution, 20 °C)
Kinematic viscosity:	not applicable
Solubility:	1844,9 mg/l (water)
Partition coefficient n-octanol/water (log value):	not determined
Vapour pressure:	not applicable
Density and/or relative density:	not determined
Relative vapour density:	2,24
Particle characteristics:	2-40 μ m

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9.2 Other information

There are no further test results.

Section 10: Stability and reactivity

10.1 Reactivity

Product is feebly reactive. It does not undergo a hazardous polymerization. See also subsection: 10.3-10.5

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

The product reacts exothermically with acids. The product reacts with aluminum and brass in a humid environment and produce hydrogen.

10.4 Conditions to avoid

Protect from moisture, air.

10.5 Incompatible materials

Strong oxidants, acids.

10.6 Hazardous decomposition products

Not known.

Section 11: Toxicological information

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

Toxicity of components

calcium hydroxide [CAS 1305-62-0]

LD₅₀ (oral, rat) > 2000 mg/kg (OECD 425)

LD₅₀ (skin, rabbit) > 2500 mg/kg (OECD 402)

Toxicity of the mixture

Acute toxicity

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

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

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STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Information on likely routes of exposure

Routes of exposure: eye contact, skin contact, ingestion, inhalation. For more information on the impact of each possible route of exposure, see subsection 4.2.

Symptoms related to the physical, chemical and toxicological properties

See subsection 4.2.

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

See subsection 4.2.

11.2 Information on other hazards

Endocrine disrupting properties

The substance is not identified as having endocrine disrupting properties.

Other information

No data.

Section 12: Ecological information

12.1 Toxicity

calcium dihydroxide [CAS 1305-62-0]

Toxicity for fish:	LC ₅₀	50,6 mg/l/ 96 h (fresh water)
	LC ₅₀	457 mg/l/ 96 h (marine water)
Toxicity for daphnia:	EC ₅₀	49,1 mg/l/ 48 h (fresh water)
	LC ₅₀	158 mg/l/ 96 h (marine water)
Toxicity for algae:	EC ₅₀	184,57 mg/l/ 72 h (fresh water)
	NOEC	48 mg/l/ 72 h (fresh water)

The product is not classified as hazardous for the environment.

12.2 Persistence and degradability

Biodegradation does not apply to inorganic substances.

12.3 Bioaccumulative potential

Bioaccumulation does not apply to inorganic substances.

12.4 Mobility in soil

The substance is feebly mobile in soil and water. Mobility of the substance depends on the hydrophilic and hydrophobic properties and biotic and abiotic conditions of soil, including its structure, climatic conditions, seasons and soil organisms.

12.5 Results of PBT and vPvB assessment

The substance does not meet the criteria for PBT or vPvB.

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12.6 Endocrine disrupting properties

The substance is not identified as having endocrine disrupting properties.

12.7 Other adverse effects

The substance has no influence on global warming and destruction of the ozone layer.

Section 13: Disposal considerations

13.1 Waste treatment methods

Disposal methods for the substance: disposal in accordance with the local legislation. Do not empty into drains, sewers, surface waters. Waste code should be given in the place of its formation.

Disposal methods for used packing: reuse/recycle/liquidate empty containers in accordance with the local legislation. Only completely empty containers can be recycled.

Legal basis: Directive 2008/98/EC as amended, 94/62/EC as amended.

Please check national legislation.

Section 14: Transport information

14.1 UN number or ID number

Not applicable. The product is not classified as dangerous during transport.

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

Not applicable.

Section 15: Regulatory information

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.

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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 (Text with EEA relevance) as amended.

Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended.

Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC (Text with EEA relevance).

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

Commission Directive 2017/164/EU of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

Commission Directive 2019/1831/EU of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

ADR Agreement concerning the International Carriage of Dangerous Goods by Road

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for mixtures.

Section 16: Other information

Full text of indicated H phrases mentioned in section 3

H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

Clarification of aberrations and acronyms

Eye Dam. 1	Serious eye damage category 1
Skin Irrit. 2	Skin irritation category 2
STOT SE 3	Specific target organ toxicity - single exposure category 3
DNEL	Derived No-Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic substance
vPvB	very Persistent, very Bioaccumulative substance
TWA	Time-weighted average
STEL	Short-term exposure limit

Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training.

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Key literature references and data sources

This SDS was prepared on the basis of safety data sheet delivered by the manufacturer, literature data, online databases as well as our knowledge and experience, taking into account current legislation.

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The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.