



SAFETY DATA SHEET

KLEIB C4

Date of creation:
25.02.2010
Update date:
07.11.2022
Version number 3.0
EN

drawn up in accordance with Commission Regulation (EU) 2020/878 in its current version

P305+P351+P338 IN CASE OF EYE CONTACT: Rinse carefully with water for a few minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Seek medical attention immediately.

P501 Dispose of contents/container at licensed waste disposal facility or return to supplier

2.3 OTHER HAZARDS

The mixture does not contain endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. The mixture does not contain substances meeting the criteria for PBT or vPvB substances according to Annex XIII, Regulation (EC) No 1907/2006 (REACH) as amended.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. **SUBSTANCE** – The product is not a substance.

3.2. MIXTURES – Chemical Characteristics

A mixture of the following substances and additives. The mixture contains the following hazardous substances and substances with specified maximum concentrations in the working atmosphere.

HAZARDOUS COMPONENTS:

Identification numbers	Name of substance	Classification	%	Comments
CAS: 14808-60-7 EC: 238-878-4	dust containing 2 to 50% free (crystalline) silica	Not classified as hazardous	≤ 15	1
CAS: 65997-15-1 EC: 266-043-4	Portland clinker	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Dam. 1, H318 STOT SE 3, H335	≤ 20	1
CAS: 1305-62-0 EC: 215-137-3	Calcium hydroxide	Skin Irrit. 2 H315, Eye Dam. 1 H318, STOT SE 3 H335	< 2	1
CAS: 16389-88-1 EC: 240-440-2	Dolomite	Not classified as hazardous	≤ 35	1

Comments

1 Substance with a Union-level occupational exposure limit.

The full wording of all classifications and H-phrases is given in section 16.

Section 4. FIRST AID MEASURES

4.1. Description of first aid measures

Take care of your own safety. If health complaints occur or in case of doubt, a doctor should be notified and given the information in this safety data sheet. In the event of unconsciousness, place the person affected in a stable position on their side with their head slightly tilted and ensure that the breathing passages are clear. Never induce vomiting.

If the person affected is vomiting spontaneously, care should be taken to avoid choking on vomit. In the case of life-threatening situations, first perform CPR on the person affected and secure medical assistance. Apnoea – carry out artificial respiration immediately. Cardiac arrest – perform indirect cardiac massage immediately

In case of inhalation

Immediately stop exposure, move the person affected to fresh air. Protect the affected person from the cold. Ensure medical care if irritation, shortness of breath and other symptoms persist.

If on skin

Put aside soiled clothing. Wash the affected area with plenty of lukewarm water, if possible. If the skin has not been injured, soap, soapy water or shampoo can be used. Ensure medical attention if skin irritation persists.

If in eyes

Do not rub the eyes to avoid damaging the cornea through mechanical damage. Rinse the eyes immediately with a jet of water, dilate the eyelids (even with force). If the affected person wears contact lenses, remove them immediately.

Do not neutralise under any circumstances! Rinse for 10–30 minutes from the inner corner to the outer corner to avoid affecting the other eye. Depending on the situation, call the emergency services or provide medical care as soon as possible. Everyone should be directed for testing, even in cases of minor contamination.



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In case of ingestion

Rinse the mouth with water and drink 2–5 dl of water. In the case of a person with health problems, provide medical care

4.2 Most important symptoms and effects, both acute and delayed

In case of inhalation

Inhalation of dust can lead to damage to the respiratory system. May cause irritation of the respiratory tract.

If on skin

May cause an allergic skin reaction.

If in eyes

Causes serious eye damage.

In case of ingestion

Damage to the digestive system may occur

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

If medical attention is sought, it is recommended that this safety data sheet be presented to the responder.

Section 5. IN CASE OF FIRE

5.1. Extinguishing agents

Appropriate: extinguishing powder, water, foam. Adapt extinguishing agents to the materials in the surroundings.

Inappropriate: compact water jets

5.2. Special hazards arising from the substance or mixture

The product is not flammable. Prevent spillage and fire extinguishing agents and water from entering groundwater, drinking water intakes and sewers.

5.3. Information for the fire brigade

Follow procedures for fighting chemical fires.

Cool containers exposed to fire or high temperatures by spraying water on them from a safe distance. If possible and safe, remove from the danger area and continue spraying until they have cooled completely.

Do not allow waste water from firefighting to enter drains and waterways. Dispose of waste water and fire residues in accordance with applicable regulations. Full protective clothing and breathing apparatus are recommended.

Section 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

In emergency situations, notify the relevant authorities. Restrict public access to the accident area until the relevant clean-up operations have been completed.

Observe recommended precautions, use personal protective equipment (see sections 7 and 8).

Remove sources of ignition – extinguish open flames, do not smoke, do not use sparking tools or equipment, prevent electrostatic discharge.

6.2. Environmental precautions

Do not allow the product to enter drains, water or soil.

Dispose of as recommended in section 13.

6.3. Methods and material for containment and cleaning up

Small amounts (a few kilos) can be flushed with water. Dispose of large quantities of dried, cured product in accordance with local regulations.

6.4. References to other sections

See sections 7, 8, 13.

Section 7. HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

7.1. Precautions for safe handling

When using and storing the product, observe the generally applicable health and safety regulations for working with chemicals.



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Recommendations for safe handling

The product is non-flammable. Use as intended and as recommended in the manufacturer's instructions. Observe personal hygiene, use appropriate personal protective equipment (see section 8).

Recommendations for fire and explosion protection

The product is not flammable.

Recommendations on occupational hygiene

Avoid contamination of eyes and skin. Observe generally applicable health and safety regulations. Follow the principles of good industrial hygiene.

Do not eat, drink or smoke in the workplace. Wash hands with soap and water after work. Do not use contaminated clothing. Remove contaminated clothing immediately and clean/wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

The product should be stored in a separate, well-ventilated room, in original, tightly closed, upright containers. Store at room temperature. Application temperature from 5 to 35°C. Protect from overheating, sunlight and frost. Do not allow product freezing or excessive warming – this can impair the stability and application properties of the product.

7.3. Specific end use(s)

See point 1. Contact the manufacturer/supplier for further information.

Section 8. EXPOSURE CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

8.1. CONTROL PARAMETERS

The mixture contains substances for which environmental exposure limits have been established.

Poland

Journal of Laws 2018 item 1286

Name of substance (ingredients)	Type	Value	Attention
Crystalline silica – respirable fraction (CAS: 14808-60-7)	TLV	0.1 mg/m ³	Respirable fraction – the fraction of an aerosol entering the respiratory tract that poses a health risk when deposited in the gas exchange area, determined in accordance with EN 481.
Portland cement – inhalable fraction (CAS: 65997-15-1)	TLV	6 mg/m ³	Inhalable fraction – the fraction of an aerosol entering through the nose and mouth which, when deposited in the respiratory tract, poses a health risk, defined in accordance with EN 481.
Portland cement – respirable fraction (CAS: 65997-15-1)	TLV	2 mg/m ³	Respirable fraction – the fraction of an aerosol which enters the respiratory tract and which presents a risk to health when deposited in the gas exchange area, determined in accordance with EN 481. The simultaneous determination of the concentrations of the respirable fraction of crystalline silica is mandatory.
Magnesium and calcium carbonate (dolomite) - respirable fraction (CAS: 16389- 88-1)	TLV	10 mg/m ³	Respirable fraction – the fraction of an aerosol which enters the respiratory tract and which presents a risk to health when deposited in the gas exchange area, determined in accordance with EN 481. The simultaneous determination of the concentrations of the respirable fraction of crystalline silica is mandatory.
calcium hydroxide (CAS: 1305-62-0)	TLV	2 mg/m ³	Inhalable fraction – the fraction of an aerosol entering through the nose and mouth which, when deposited in the respiratory tract, poses a health risk, defined in accordance with EN 481.
calcium hydroxide (CAS: 1305-62-0)	STEL	6 mg/m ³	Inhalable fraction – the fraction of an aerosol entering through the nose and mouth which, when deposited in the respiratory tract, poses a



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			health risk, defined in accordance with EN 481.
	TLV	1 mg/m ³	Respirable fraction – the fraction of an aerosol entering the respiratory tract that poses a health risk when deposited in the gas exchange area, determined in accordance with EN 481.
	STEL	4 mg/m ³	

European Union

Commission Directive (EU) 2017/164

Name of substance (ingredients)	Type	Value	Attention
calcium hydroxide (CAS: 1305- 62-0)	OEL 8 hours	1 mg/m ³	Respirable fraction
	OEL 15 minutes	4 mg/m ³	

8.2. EXPOSURE CONTROL

Do not eat, drink or smoke while working. Wash your hands thoroughly with soap and water after work and before taking a break to eat and rest.

Eye or face protection

It is not necessary

Skin protection

Use protective gloves for prolonged or repeated use.

Respiratory protection

It is not necessary

Heat hazard

No data available

Environmental exposure controls

Observe the usual measures for the protection of the working environment, see section 6.2.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: grey powder
Fragrance	: odourless
Odour (<i>detection</i>) threshold	: No data available
pH value	: 8–11 after mixing with water
Melting point/freezing point	: No data available
Boiling temperature/range	: No data available
Flash point	: No data available
Evaporation rate	: No data available
Flammability (solid)	: not flammable
Upper-bottom explosion limit	: No data available
Vapour pressure	: No data available
Vapour density relative to air	: No data available
Relative density	: No data available
Density	: 1.56 g/cm ³
Solubility in water	: insoluble
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: not applicable
Decomposition temperature	: No data available
Viscosity	: No data available
Explosive properties	: no
Oxidising properties	: no

9.2. OTHER INFORMATION

No data available



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Section 10. STABILITY AND REACTIVITY

10.1. REACTIVITY

10.1. Reactivity

No data available

10.2. Chemical stability

Product stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions

When stored and handled in accordance with regulations, none are known.

10.4. Conditions to avoid

Application temperature +5 to +25°C. Protect from overheating, sunlight and frost.

10.5. Incompatible materials

Protect against strong acids and alkalis as well as oxidising substances.

10.6. Hazardous decomposition products

In the case of normal use, they do not arise. At high temperatures and in the course of a fire, dangerous products such as carbon monoxide and carbon dioxide are produced

Section 11. TOXICOLOGICAL INFORMATION

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

Inhalation of solvent vapours above the exposure limits for the working environment can lead to acute inhalation poisoning, and this depends on the concentration level and the exposure time. No toxicological data available for the mixture

Acute toxicity

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

Skin corrosion/irritation

Irritating to skin.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Mutagenic effect on germ cells

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

Carcinogenicity,

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

Reproductive toxicity

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

Toxic effects on target organs – single exposure

May cause respiratory irritation

Toxic effects on target organs – repeated exposure

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

Aspiration hazard

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

11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria laid down in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

Section 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Acute toxicity. Data are not available for the mixture.

12.2. Persistence and degradability:

No data available.

12.3. Bioaccumulative potential



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No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The mixture does not contain substances meeting the criteria for PBT or vPvB substances according to Annex XIII, Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria laid down in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

12.7. Other adverse effects

No data available

Section 13. WASTE TREATMENT

13.1. WASTE DISPOSAL METHODS

Danger of environmental contamination, proceed in accordance with the Waste Disposal Act 2013, item 21 and implementing regulations. Proceed in accordance with current waste disposal regulations. Store unused product and soiled packaging in closed waste collection containers and hand over for disposal to a person authorised and duly certified to dispose of waste (specialised company). Do not pour unused product down the drain. Do not dispose of with municipal waste. Empty packaging can be used for energy generation in a waste incinerator or landfilled with the appropriate classification. Perfectly cleaned packaging can be sent for recycling.

Waste management regulations

Act of 14 December 2012 on waste (Journal of Laws of 8 January 2013). Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste. Directive 94/62/EC on packaging waste and municipal waste. Regulation of the Minister of the Environment of 9 December 2014 on the waste catalogue (Journal of Laws 2014, item 1923). Regulation of the Minister of Climate of 2 January 2020 on the catalogue of waste (Journal of Laws 2020 item 10)

Section 14. TRANSPORT INFORMATION

14.1. UN NUMBER – not subject to transport regulations

14.2. UN PROPER SHIPPING NAME – not relevant

14.3. TRANSPORT HAZARD CLASS(-ES) – Not relevant

14.4. PACKAGING GROUP – Not relevant

14.5. HAZARD TO THE ENVIRONMENT – Not relevant

14.6. SPECIAL PRECAUTIONS FOR USERS – reference in sections 4 to 8

14.7. TRANSPORT IN BULK in accordance with Annex II of MARPOL 73/78 and the IBC Code - Not relevant

Section 15. REGULATORY INFORMATION

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

Public Health Act. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation 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. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on the 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, as amended. Regulation (EC) No 694/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals. Act of 25 February 2011 on chemical substances and their mixtures (Journal of Laws of 2020, item 2289, of 2021, item 2151). Regulation of the Minister of Health of 20 April 2012 on the labelling of packaging of hazardous substances and mixtures and certain mixtures (Journal of Laws no. , item 445). Regulation of the Minister of Health of 10 August 2012 on the criteria and classification of chemical



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substances and their mixtures (Journal of Laws no. , item 1018). Act of 28 May 2020 amending the Act on chemical substances and their mixtures and certain other acts (Journal of Laws of 2020, item 1337) Announcement by the Marshal of the Sejm of the Republic of Poland of 1 February 2019 on the announcement of the uniform text of the Act on the carriage of dangerous goods (Journal of Laws of 2020, item 154). Act of 23 January 2020 amending the Waste Act and certain other acts. (Journal of Laws of 23 January 2020, item 150). Act of 13 June 2013 on the management of packaging and packaging waste (Journal of Laws of 2013, item 888). Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the working environment.

15.2. Chemical safety assessment

No data available

Section 16. OTHER INFORMATION

List of hazard statements used in the safety data sheet

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

List of precautionary statements used in the safety data sheet

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children. P280 Wear protective gloves.
P305+P351+P338 IN CASE OF EYE CONTACT: Rinse carefully with water for a few minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Seek medical attention immediately.
P501 Dispose of contents/container to an authorised waste disposal facility or return to supplier.

Further information important for the safety and protection of human health

The product may not – without the specific consent of the manufacturer/importer – be used for any other purpose than that stated in section 1. The user is responsible for compliance with all related health regulations.

Explanation of the abbreviations and acronyms used in the Safety Data Sheet

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF Bioconcentration Factor
CAS Chemical Abstracts Service
CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
EINECS European Inventory of Existing Commercial chemical Substances
EmS Contingency plan
EuPCS European Product Categorisation System
IATA International Air Transport Association
IBC International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk
ICAO International Civil Aviation Organization
IMDG International Maritime Dangerous Goods Code
INCI International Nomenclature of Cosmetic Ingredients
ISO International Organization for Standardization
IUPAC International Union of Pure and Applied Chemistry
log Kow Octanol-water partition coefficient
VOC Volatile organic compounds
MARPOL International Convention for the Prevention of Pollution from Ships
TLV Threshold limit value
STEL Short-term exposure limit
MAC Maximum allowable concentration
OEL Occupational exposure limit
PBT Persistent, bioaccumulative and toxic substances
ppm Parts per million
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals
RID Regulations concerning the international carriage of dangerous goods by rail



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EU European Union

UN Four-digit identification number of the material or object, derived from the "UN Model Regulations"

UVCB Substances of unknown or variable composition, complex reaction products or biological materials

vPvB Very persistent, very bioaccumulative

EC Identification code for each substance as stated in EINECS

Eye Dam. Serious eye damage

Skin Irrit. Skin irritation

STOT SE Specific target organ toxicity – single exposure

Guidelines for training

Present to the workers the recommended method of use, mandatory protective measures, first aid and prohibited product handling.

Recommended restrictions on use

no data available

Information on the data sources used to compile the safety data sheet

Regulation (EC) No 1907/2006 of the European Parliament and of the Council (REACH), as amended.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council, as amended. Data from the manufacturer of the substance/mixture – data from the registration dossier.

Changes made (which information was added, deleted or modified)

This sheet replaces version 2.0PL. Section update: 2,3,8,13,15,16.

Other data

Classification procedure – calculation method.

Statement

The safety data sheet contains data for occupational health and safety and environmental protection. The data provided corresponds to the current state of knowledge and experience and complies with current legislation. They cannot be considered a guarantee of the suitability and usability of the product for a specific application