

Safety data sheet according to Regulation (EC) No. 1907/2006

Trade name: Product from natural calcium carbonate

Created on: 17 March 2003 Version: 335-10

Replaced: 335-9

Revised on: 22 January 2021

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

1.1 Product identifier

Substance name/ Trade name: **K4 in all particle grades
K4 plus in all particle grades**

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

Relevant identified uses: Separating powder and test dust
Uses advised against: -

1.3 Details of the supplier of the safety data sheet

Manufacturer/ Supplier: KSL staubtechnik gmbh
Street/ PO Box: Westendstrasse 11
Nat. ident./ Postcode/ Place: DE - 89415 Lauingen
Telephone/ Fax/ E-mail: +49 (0) 9072 / 95 00-0 / Fax: -50 / info@ksl-staubtechnik.de

1.4 Emergency telephone number

+49 (0) 9072 / 95 00-0 (Accessibility: Mo-Thu 08:00-16:00, Fr 08:00-12:00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No. 1272/2008

No hazardous substance or hazardous mixture according to Regulation (EC) No. 1272/2008

2.2 Label elements

2.2.1 Label elements according to Regulation (EC) No. 1272/2008

Not subject to label according to Regulation (EC) No. 1272/2008

2.3 Other hazards

Based on the available data on natural calcium carbonate, the product does not represent a hazard under normal use either for humans or the environment.

SECTION 3: Composition/ information on ingredients

3.1 Substances

The product is a mixture.

3.2 Mixtures

Composition/ information on ingredients

Description of the mixture: Product of natural calcium carbonate

Hazardous ingredients: None

Product identifier	CAS No.	EG-No.	Concentration range [M.-%]	Classification according to Regulation (EC) No. 1272/ 2008
Calcium carbonate – CaCO ₃	1317-65-3	215-279-6	>= 99%	not applicable

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes:

If symptoms persist, it is advised to consult a doctor. Please specify substance/product and measures taken to the doctor.

After inhalation:

Move to fresh air.

After skin contact:

Wash with water and soap.

After eye contact:

Holding eyelids open, rinse with plenty of water.

After ingestion:

Rinse mouth with plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

The powder can irritate the eyes and respiratory tract.

4.3 Indication of any immediate medical attention and special treatment needed

Treat according to symptoms.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable:

Water spray jet, alcohol-resistant foam

Unsuitable:

Powder and solid water jet: Hazard of dust cloud mixture

5.2 Special hazards arising from the substance or mixture

None

5.3 Advice for firefighters

None

5.4 Additional advice

No action is required because the mixture is not combustible.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Wear protective clothing as described under Section 8. Follow the instructions for safe use, as described under Section 7.

6.1.2. For emergency responders

Emergency plans are not necessary. With high dust levels, respiratory protection is however required.

6.2 Environmental precautions

No special environmental protection measures required.

6.3 Methods and material for containment and cleaning up

6.3.1 Notes for containment

Avoid dust generation.

6.3.2 Notes for clean-up

Absorb or suck the mixture mechanically. For disposal, collect it in the containers provided for this purpose, according to local regulations.

6.3.3 Advices on inappropriate containment and cleaning methods

Blowing-off for cleaning purposes is not permitted.

6.4 Reference to other sections

As to disposal, please refer to Section 13 of the Safety Data Sheet (SDS). Personal protective is given in section 8 of the SDS.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

7.1.1 Recommendations on safe handling

Avoid dust formation and deposits.

Measures to prevent fire and explosion

None

Measures to prevent aerosol and dust generation

Sweep only with appropriate cleaning agent. For cleaning, use suitable methods as dry as possible - such as vacuum intake - that do not cause dust generation.

Measures to protect the environment

Keep the substance away from waters, sewerage or soil.

Avoid contact with acids.

7.1.2 Advice on general occupational hygiene

During work do not drink, eat or smoke. Wash hands after use/contact. In dusty atmosphere, use breathing masks and safety goggles.

7.2 Conditions for safe storage, including any incompatibilities

Advice on storage conditions

Store containers dry. Do not store together with acids.

Requirements for storage rooms and vessels

Store in dry and sealed containers, possibly the original ones.

Storage class:

VCI: 13 (non-flammable solids)

Other information:

No decomposition if stored and used according to specifications.

7.3 Specific end use(s)

Industry and sector specific guidance

For specific end uses (see Section 1.2), no additional information is available.

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SECTION 8: Exposure controls/ personal protection

8.1 Control parameters

Components with workplace-related limit values to be monitored:

Chemical identity	CAS No.	EC No.	National limit value	Exposure type	Comment / Legal provision
General dust limit value	-	-	1,25 (A) mg/m ³ (respirable)	inhalative	Workplace-related limit value TRGS 900
General dust limit value	-	-	10 (E) mg/m ³ (inhalable)	inhalative	Workplace-related limit value TRGS 900

8.2 Exposure controls

8.2.1 Appropriate engineering controls

To comply with workplace-related limit values, combined technical and individual protection measures are often necessary. Recommended measuring procedures for workplace-related measurements: see the professional association series of papers. For the identified uses (Section 1.2), technical control devices and personal protection measures are recommended. Ventilate as required to control dust in the air. With high dust content in the air, use a ventilation system.

8.2.2 Individual protection measures such as personal protective equipment

General

When the product is used as intended, no personal protective equipment is necessary. Treat the product in compliance with the safety instructions.

Eye-/face protection

In case of dust generation, wear closed protective goggles according to EN 166.

Skin-/hand protection

In sensitive people, it may be mildly irritating to the skin due to mechanical friction. If necessary, wear protective gloves according to Standard EN 374.

Respiratory protection

In case the exposure limit values are exceeded (e.g. with open handling of powdery product), a suitable breathing mask with P2 particle filter must be worn according to Standard 143.

Hygiene measures

When working do not eat, drink or smoke. Wash your hands before any breaks and after finishing work, and if necessary have a shower. Avoid contact with eyes and skin. After work, workers should wash or have a shower and use skin care products. Clean contaminated clothing, shoes, watches, etc., before re-using.

8.2.3 Environmental exposure controls

See Sections 6 and 7. No further action is required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

(a)	Aggregate state	powder – solid
(b)	Colour	white
(c)	Odour	odourless
(d)	Melting point/freezing point	1340° C (102 bar) / not applicable
(e)	Boiling point or initial boiling point and boiling range	Not applicable because chemical decomposition is before the boiling point is reached.
(f)	Flammability	not applicable
(g)	Lower and upper explosion limits	not applicable to solids according to Regulation (EU) 2020/878.
(h)	Flash point	not applicable to gases, aerosols and solids according to Regulation (EU) 2020/878.
(i)	Ignition temperature:	applies only to gases and liquids according to Regulation (EU) 2020/878.
(j)	Decomposition temperature:	> 825° C in CaO + CO ₂
(k)	pH value:	8.5 – 9.5 (100 g/l at 20° C)
(l)	Kinematic viscosity	applies only to liquids according to Regulation (EU) 2020/878.
(m)	Solubility	in water: 0.014 g/l (20° C) 0.018 g/l (75° C)
(n)	Partition coefficient n-octanol/water (log value)	n-octanol/water >1 (estimate)
(o)	Vapour pressure:	not applicable
(p)	Density and/or specific gravity	Relative density: 2.6 – 2.8 (at 20° C)
(q)	Relative vapour density	only applicable to gases and liquids according to Regulation (EU) 2020/878.
(r)	Particulate properties	The X ₅₀ value is between 10.5µm and 94µm.

9.2 Other information

Not applicable

9.2.1 Information on physical properties

Not applicable

9.2.2 Other safety parameters

Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

In case of appropriate storage and handling, no hazardous reactions are known.

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10.2 Chemical stability

Under normal ambient temperature and pressure the mixture is stable.
Stable under recommended storage conditions. No decomposition if used as intended.

10.3 Possibility of hazardous reactions

It may react hazardously with, for example, fluorine, magnesium or aluminium when exposed to heat. With acids, acidic ammonium compounds, acid salts or exposure to high temperatures (>825° C), reactions involving the displacement of carbon dioxide CO₂ can take place (risk of suffocation / risk of bursting in closed containers).

10.4 Conditions to avoid

Moisture and water during storage may cause lump formation and loss of product quality.
Temperatures > 100° C

10.5 Incompatible materials

Avoid contact with acids.

10.6 Hazardous decomposition products

Thermal decomposition at temperatures above 825° C; formation of CO₂ and CaO

SECTION 11: Toxicological information

11.1 Information on hazard classes within the meaning of Regulation (EC) No 1272/2008

For the product, no toxicological information is available. Due to the fact that calcium carbonate is a rock of the earth surface and a natural and indispensable component of natural water in the dissolved state, chronic toxicity as well as sensitising effects can be virtually excluded.

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

a) Acute toxicity

LD50 Oral: > 5.000 mg/kg, species: rat

b) Corrosive/irritant effect on the skin

According to the EU classification criteria, the product is not considered to be a skin irritant.

c) Serious eye damage/irritation

According to the EU classification criteria, the product is not to be considered irritating for eyes.

d) Respiratory/skin sensitisation

No data available / not a hazardous substance.

e) Germ cell mutagenicity

No data available / not a hazardous substance.

f) Carcinogenicity

No data available / not a hazardous substance.

g) Reproductive toxicity

No data available / not a hazardous substance.

h) Specific target organ toxicity (single exposure)

No data available / not a hazardous substance.

i) Specific target organ toxicity in case of repeated exposure

No data available / not a hazardous substance.

j) Aspiration hazard

No data available / not a hazardous substance.

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

Immediate effects

Irritation of the eyes or respiratory tract caused by exposure to foreign bodies may occur

Chronic effects with prolonged exposure

No data available / not a hazardous substance

11.2 Information on other hazards

No endocrine disrupting properties or other adverse effects are known.

SECTION 12: Ecological information

For the product, no ecotoxicological data is available. Calcium carbonate is a solid-state rock of the earth surface. In the dissolved state, the substance is a natural and indispensable component of natural water. Adverse consequences for the environment can therefore be ruled out.

12.1 Toxicity

Toxicity to fish:

LC50: > 10,000 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates:

EC50: > 1,000 mg/l
Exposure time: 48 h
Species: Daphnia magna (great water flea)

Toxicity to algae:

EC50: > 200 mg/l
Exposure time: 72 h
Species: Desmodesmus subspicatus (green algae)

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12.2 Persistence and degradability

Calcium carbonate cannot be biodegraded.

12.3 Bioaccumulative potential

No data available, as no data is available from the raw material supplier.

12.4 Mobility in soil

No data available, as no data is available from the raw material supplier.

12.5 Results of PBT and vPvB assessment

No data available, as no data is available from the raw material supplier.

12.6 Endocrine disrupting properties

No data available, as no data is available from the raw material supplier.

12.7 Other adverse effects

In the solid state, these minerals are major components of the earth surface rocks. In the dissolved state, they are natural and indispensable components of natural water. These minerals are not biodegradable. Negative effects on the environment should therefore be excluded.

It must be restrictively mentioned, however, that concentrated slurries of these minerals can have an adverse effect on aquatic organisms in natural waters (disturbance of the microflora and microfauna in sediments, and thus harmful effects on higher aquatic organisms).

SECTION 13: Disposal considerations

13.1 Waste treatment methods

It can be disposed of together with household waste in compliance with local regulations. Collect the product dry. Dispose of larger amounts in accordance with local official regulations.

Recommendation

Agree on the correct waste code with the disposal company.

Waste code according to the European List of Waste (LoW)

010410 – dusty and powdery waste

Treatment of purified/unclean packaging

150106 – mixed packaging according to specific material recycling

SECTION 14: Transport information

With respect to transport regulations, the product is not hazardous (ADR, RID, ADN, IMDG, ICAO/IATA).

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

No special measures

14.7 Carriage in bulk by sea in accordance with IMO instruments

Not applicable

SECTION 15: Regulatory information

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

The product does not fall within the registration requirement of EC Regulation 1907/2006 (REACH).

EU regulations

National regulations

When handling this product, the following valid legal provisions are i. a. to be complied with

AwSV Water hazard class:

0 - nwg – not hazardous for water

TRGS 559 "Mineral dust"

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TRGS 500 "precautions"

TRGS 900 "Work-place related limit values"

Technical Instructions on Air Quality Control

Regulation on occupational health care (ArbMedVV)

Basic principles of the Institution for Statutory Accident Insurance and Prevention on occupational medical examinations

15.2 Chemical safety assessment

No Chemical Safety Assessment is required for this mixture.

SECTION 16: Other information

16.1 Changes to the previous version

Header adapted; paragraph 1.1 updated; paragraph 3.2: column "REACH" removed; paragraph 6.4: reference inserted; paragraph 9.1: alignment with the information in Regulation 2020/878; paragraphs 9.2.1+9.2.2 new inserted; paragraph 11.1: heading and enumeration aligned with Regulation 2020/878, sentence inserted; paragraph 11.2 newly inserted; Paragraph 12: editorial changes; Paragraph 12.6: newly inserted; Paragraph 14.1, 14.7: adaptation of heading to named regulation; Paragraph 15.1, 16.2, 16.4: water hazard class was renamed from "VwVwS" to "AwSV" and reviewed; Paragraph 15.2: editorial changes; Paragraph 16.7: newly inserted.

16.2 Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ArbMedVV	Verordnung zur arbeitsmedizinischen Vorsorge (Regulation on occupational health care)
BG	Berufsgenossenschaft (Institution for Statutory Accident Insurance and Prevention)
CAS	Chemical Abstracts Service
CLP	Classification, labelling and packaging (Regulation (EC) No. 1272/2008)
IATA	International Air Transport Association
ICAO	International Civil Aviation Organisation
IMDG	International agreement on the Maritime transport of Hazardous Goods
PBT	Persistent, bio-accumulative and toxic
REACH	Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) 1907/2006)
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
TRGS	Technische Regeln für Gefahrstoffe (Technical rules for hazardous substances)
VCI	Verband der chemischen Industrie e.V. (Registered association of the chemical industry)
vPvB	Very persistent, very bioaccumulative
AwSV	Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on Installations for Handling Substances Hazardous to Water)

16.3 Literature references and sources of data

With regard to the sources of key data and technical information we refer to the information provided by the raw material supplier/ manufacturer or the ECHA Classification and Labelling Inventory.

16.4 Methods compliant with article 9 of Regulation (EC) No. 1272/2008 used to evaluate information for the purpose of classification

No own assessment of the mixture has been made.

Bridging principles for the classification of mixtures according to Regulation (EC) No. 1272/2008, article 6, paragraph 5 have been applied.

The classification of the water pollution class of this mixture has been carried out according to AwSV.

16.5 Training appropriate for workers

In addition to training programmes for employees on the topics of health, safety and environment, companies must ensure that their employees read and understand this safety data and are able to implement its requirements.

16.6 Other information

The product can be safely used in the production of food packaging units. In the manufacture of our products, no antibiotics, bactericides or fungicides are used.

16.7 Information on NANO

We do not use nanotechnology processes and no synthetic nano-materials are used for production. However, we cannot exclude the possibility that small amounts of nanoparticles are present in the material. In order to obtain the desired particle size distribution in our product, it is crushed and then sieved. It could be that some nanoparticles are produced in such a comminution process. By the way, the same applies to products such as flour or sugar! It is therefore not possible to exclude NANO material.

16.8 Disclaimer

The information contained in this safety data sheet describes the safety requirements of our product and is based on our current level of knowledge. It implies no guarantee of the product properties and does not justify a contractual legal relationship. This safety data sheet serves the user as reference information. Although this safety data sheet has been drawn up with great care, no guarantee for data accuracy, and no liability for the consequences of printing, typeset or transcription errors can be accepted. The existing laws, regulations and rule systems, including those not mentioned in this data sheet, must be complied with by the recipient of our products under its own responsibility.