

Sicherheitsdatenblatt

gem Verordnung (EG) Nr. 1907/2006, 1272/2008 und 453/2010

OEL-KLEEN Kerasorb Superplus

Created on: 11.11.2025
Revised on:
Version: 2

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

1.1	Product identifier Substance name / trade name: REACH registration number Other names:	Diatomaceous earth, granulated, calcined OEL-KLEEN Kerasorb Superplus Exempt from the obligation to register in accordance with Annex V.7 Diatomite, calcined diatomaceous earth
1.2	Relevante identifizierte Verwendungen	Binding agent for: R = oil, B = alkalis, F = flammable liquids, H = non-polar, organic liquids, P = aqueous and polar liquids Recommended use: Absorption of hydrofluoric acids
1.3	Details of the supplier of the safety data sheet ESV GmbH, Zur oberen Heide, 56865 Blankenrath Telefon +49 6545 911986 (during office hours)	
1.4	Emergency number	112

Section 2: Potential hazards

2.1	Classification of the substance or mixture Classification (EC 1272/2008) Physikalische Gefahren Health hazards Environmental hazards	Not categorised Not categorised Not categorised
	Human health	This product does not fulfil the criteria for classification as a dangerous substance or preparation in Regulation (EC) 1272/2008. Depending on handling and use (e.g. grinding, drying) the formation of airborne respirable crystalline silica is possible. Prolonged and/or intensive inhalation of respirable crystalline silica can cause dust lung disease (silicosis). The main symptoms of silicosis are coughing and breathing problems/difficulty breathing. Appropriate protective and monitoring measures should be in place for irregular exposure to respirable crystalline silica.
	Environmental	The product is not considered to be hazardous to the environment
	Physicochemical	This product is an inorganic substance and does not fulfil the criteria for PBT or vPvB in accordance with Annex XIII of REACH. The product should be handled with special care to avoid dust formation.
2.2	Labelling elements EC number Hazard warnings	293-303-4 NC Not classified
2.3	Other hazards This substance is not classified as PBT or vPvB according to the currently valid EU classification criteria.	
	Endocrine-disrupting properties	The data available on the substance were evaluated according to the criteria described in the Regulations ((EC) No 1907/2006, (EU) 2017/2100, (EU) 2018/605) and these were found to be not applicable.

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Section 3: Composition/information on ingredients

3.1	Substances	Diatomaceous earth, natural 60-80 M-%
	Substance name:	Diatomaceous earth, natural
	Index-Nr.:	
	EG-Nr.:	293-303-4
	CAS-Nr.:	91053-39-3
	Classification	Nicht Eingestuft
	The full text of the hazard statements is given in section 16.	
		This is a UVCB substance. This product does not contain SVHC substances with a content of more than 0.1% by weight.
	Notes on the ingredients/composition	This product contains less than 1% crystalline silica (fine fraction) consisting of cristobalite (fine fraction) and quartz (fine fraction). Cristobalite: CAS-No.: 14464-46-1 EC No.: 238-455-4. Quartz: CAS-No.: 14808-60-7 EC No.: 238-878-4. The classification of the product is shown in section 2 of this safety data sheet.

Section 4: First aid measures

4.1	Description of first aid measures	
	General information	No acute and delayed symptoms and effects are observed
	After inhalation	Remove person to fresh air and keep warm and at rest in a position where breathing is easy. If symptoms persist, seek medical help.
	Ingestion	Rinse mouth thoroughly with water. If symptoms persist, seek medical attention.
	Skin contact	Wash skin thoroughly with soap and water. Use a suitable lotion to moisturise the skin. moisturising lotion.
	Eye contact	Do not rub the eye. Rinse under running water for several minutes. If symptoms persist consult a doctor if symptoms persist.
	Protective measures for	For information on personal protective equipment, see chapter 8.
4.2	Most important symptoms and effects, both acute and delayed	
	General information	The severity of the symptoms described varies depending on the concentration and duration of exposure.
4.3	Information on immediate medical assistance or specialised treatment	
	Notes for the doctor	No special recommendations.

Section 5: Fire-fighting measures

5.1	Extinguishing agent	
	Suitable extinguishing agents	The product is not flammable. No special extinguishing agent is required. Use suitable fire-fighting agents for surrounding fire.
	Unsuitable extinguishing agents	No restriction on the extinguishing agent to be used
5.2	Special hazards arising from the substance or mixture	
	Special hazards	Not flammable. No dangerous thermal decomposition.
5.3	Instructions for firefighting	
	Protective measures during firefighting	No specific fire protection measures required. Use a suitable extinguishing agent for the surrounding fire. As the moistened product makes the floor slippery, there is a risk of slipping and non-slip footwear should be worn.

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Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautionary measures

Avoid dust formation. Wear protective clothing in accordance with national regulations. As the moistened product makes the floor slippery, there is a risk of slipping and non-slip footwear should be worn.

6.2 Environmental protection measures

Environmental protection measures Do not allow product to enter drains, waterways or soil.

6.3 Methods and material for retention and cleaning

Cleaning methods

Avoid dry sweeping. Use spraying or suction systems for cleaning to prevent dust formation. Wear protective clothing in accordance with national regulations. As the moistened product makes the floor slippery, there is a risk of slipping and non-slip footwear should be worn.

6.4 References to other sections

For information on personal protective equipment, see section 8. Section 13.

Section 7: Handling and storage

7.1 Protective measures for safe handling

Protective measures during use

Avoid dust formation. Areas where dust is generated must be equipped with suitable ventilation systems. If ventilation is inadequate, wear suitable respiratory protection. Handle packaged products with care to avoid damaging the packaging. For instructions on safe handling, contact the supplier of the product. Do not eat, drink or smoke in areas where work is carried out; wash hands after use; remove contaminated clothing and protective equipment before entering areas where food is eaten. As the moistened product makes the floor slippery, there is a risk of slipping and non-slip footwear should be worn. For information on personal protective equipment, see chapter 8.

General occupational hygiene measures

Keep the dust content to a minimum. Minimise the formation of dust. General workplace hygiene measures are required. These measures include good personal and organisational procedures (e.g. regular cleaning with suitable cleaning equipment). Shower and change clothes at the end of the shift. Change work clothes daily before leaving the workplace.

7.2 Conditions for safe storage in consideration of incompatibilities

Protective measures for storage

Store in a dry, closed area. Minimise dust formation. Avoid drifting during loading operations. Keep containers closed and store packaged products in such a way that packaging is not damaged.

7.3 Specific end uses

Please contact your supplier if you require information on specific types of use.

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Section 8: Exposure controls/personal protective equipment

8.1 Parameters to be monitored

Workstation limit values

A binding European OEL (occupational exposure limit value) for respirable crystalline silica dust was set in Directive (EU) 2017/2398 at 0.1 mg/m³ measured as a weighted average value for a reference period of 8 hours (TWA).

Quarz

Occupational exposure limit value (8-h shift averages): National assessment standards, BMAS, GMBI. (2016) No 31, p. 623 0.05 mg/m³ alveolar fraction

Inorganic dusts

Occupational exposure limit (8-h shift average): MAK 1.25 mg/m³ respirable dust

Cristobalit

Occupational exposure limit value (8-h shift averages): National assessment standards, BMAS, GMBI. (2016) No 31, p. 623 0.05 mg/m³ alveolar fraction

MAK = Maximum workplace concentrations

Comments on the ingredients

Keep personal exposure below the occupational exposure limits for dust (inhalable and respirable) as prescribed by national legislation

8.2 Exposure controls and monitoring

Suitable technical control equipment

Keep dust generation to a minimum. Ensure that the dust load is within the limit values by isolating processes, using ventilation systems or other technical measures. If dust, vapours or mist are generated by the activities of persons, ventilation must be used to ensure that the particle load in the air is within the limit values. Apply organisational measures, e.g. keep people away from dusty areas. Change and clean contaminated work clothing. Observe the occupational exposure limits of the product or the ingredients. The limit value for cristobalite and quartz has been withdrawn. Employers are obliged to minimise exposure in the workplace as far as possible and to take appropriate protective measures. taken into account.

Eye / face protection

Eye protection complying with a recognised standard should be worn if a risk assessment indicates that eye contact is possible. The following personal protective equipment should be worn Safety goggles or face shield. Contact lenses should not be worn when working with this product.

Hand protection

People who suffer from dermatitis or have particularly sensitive skin should take suitable protective measures (e.g. wear gloves or use protective cream). Wash hands at the end of work. It is recommended that protective gloves are made of the following material: Polyvinyl chloride (PVC). Neoprene. Rubber (natural, latex).

Other skin and body protection

Normal work clothing is sufficient to protect the skin.

Hygiene measures

Do not eat, drink or smoke at work. Wash at the end of each shift and before eating, smoking and using the toilet. Use a suitable skin cream to prevent the skin from drying out.

Respiratory protection

Localised ventilation is recommended to ensure that the dust content of the air is below the occupational exposure limits. In case of exposure where technical devices are not sufficient, the use of RPE (respiratory protective equipment) is recommended. A risk assessment is required to ensure adequate protection against airborne dust. The type of RPE must be appropriate to the work situation and the specific requirements of the wearer. Other environmental conditions should also be taken into account. The minimum APF (assigned protection factor) required depends on the measured or predicted occupational exposure levels divided by the OEL (see section 8.1). The filters specified as FFP2 and P2 have an APF of 10.

When correctly fitted, the wearer's exposure can be reduced to one tenth of the working atmosphere. Depending on the exposure assessment, a filter with lower or higher efficiency may be required. The manufacturer's instructions and regulatory requirements regarding duration of use and correct fitting must be observed. The wearer of the selected RPE should be trained before use.

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Environmental protection control measures

All ventilation systems should be filtered before being released into the atmosphere. Avoid release to the environment. Limit spillages.

Section 9: Physical + chemical properties

9.1 Information on the basic physical + chemical properties

Form	Granules, solid
Odour	odourless
pH value (10 % suspension)	6,5
Vapour pressure	not applicable
Vapour density	not applicable
Boiling point	not applicable
Schmelzpunkt	> 450°C EU-Verfahren A1 Read-across-Daten: Kaolin
Flash point	nicht entflammbar
Decomposition temperature	not relevant
Bulk density	520 g/l
Verdampfungsgeschwindigkeit	not applicable
Flammability (solid, gaseous)	Non-flammable EU method A10 Read-across data: Kaolin
Upper/lower flammability or explosion limits	Non-explosive (without chemical structures normally associated with explosiveness)
Solubility	Unlöslich in Wasser
Partition coefficient	Not applicable (inorganic substances)
Auto-ignition temperature	non-flammable
Viskosität	not relevant
Explosionsverhalten	There are no chemical groups in the product that are associated with explosive properties.
Oxidation behaviour	In dem Produkt liegen keine chemischen Gruppen vor, die mit oxidierenden Eigenschaften verbunden sind.

9.2 Other information

No other information

Abschnitt 10: Stabilität + Reaktivität

10.1 Reactivity

The following materials may react with the product: Hydrofluoric acid

10.2 Chemical stability

Stable at normal ambient temperatures and when used as intended

10.3 Possibility of hazardous reactions

Silicon tetrafluoride (SiF₄) is formed on contact with hydrofluoric acid.

10.4 Conditions to avoid

The following materials may react with the product: Hydrofluoric acid

10.5 Incompatible materials

Hydrofluoric acid / hydrofluoric acid

10.6 Hazardous decomposition products

Silicon tetrafluoride (SiF₄) is formed on contact with hydrofluoric acid.

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Section 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity - oral

Based on available data, the classification criteria are not met

Acute toxicity - dermal

Based on available data, the classification criteria are not met

Corrosive/irritant effect on the skin

Based on available data, the classification criteria are not met

Serious eye damage/irritation

Based on available data, the classification criteria are not met

Sensitisation of the respiratory tract/skin

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

Genotoxicity in vitro

This product does not meet the criteria for classification as a dangerous substance or preparation in Regulation (EC) 1272/2008.

Specific target organ toxicity after single exposure

Based on available data, the classification criteria are not met

Specific target organ toxicity with repeated exposure

Based on available data, the classification criteria are not met

Aspiration hazard

Based on available data, the classification criteria are not met

Inhalation hazard

Based on available data, the classification criteria are not met

Inhale

Dust can irritate the respiratory tract in high concentrations

Ingestion

No harmful effects of quantities are expected, that can be ingested accidentally.

Skin contact

Längerer Kontakt mit der Haut kann zu Trockenheit führen

Eye contact

Particles in the eyes can cause irritation and burning pain

Endocrine disrupting properties

The data available on the substance were evaluated according to the criteria described in the Regulations ((EC) No 1907/2006, (EU) 2017/2100, (EU) 2018/605) and these were found to be not applicable.

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Section 12: Environmental information

12.1	Toxicity	
	<u>Acute aquatic toxicity</u>	
	Acute toxicity - fish	Not relevant
	Acute toxicity - Aquatic invertebrates	Not relevant
	Acute toxicity - Aquatic plants	Not relevant
	<u>Environmental information on ingredients</u>	
	<u>Acute aquatic toxicity</u>	
	Acute toxicity - fish	Not relevant
	Acute toxicity - Aquatic invertebrates	Not relevant
	Acute toxicity - Aquatic plants	Not relevant
12.2	Persistence + degradability	The product is not biodegradable
	<u>Environmental information on ingredients</u>	
	Persistence and degradability	The product is not biodegradable
12.3	Bioaccumulative potential	
	Bioaccumulation potential	This product does not contain any substance that can be considered bioaccumulative
	Partition coefficient	Not applicable (inorganic substances)
	<u>Environmental information on ingredients</u>	
	Bioaccumulation potential	This product does not contain any substance that can be considered bioaccumulative
	Partition coefficient	Not applicable (inorganic substances)
12.4	Mobility in the soil	The product is insoluble in water.
	<u>Environmental information on ingredients</u>	
	Mobility	The product is insoluble in water
12.5	Result of the PBT and vPvB assessment	
		This substance is not classified as PBT or vPvB according to the currently valid EU classification criteria.
	<u>Environmental information on ingredients</u>	
	Ergebnisse von PBT und vPvB Bewertungen	This substance is not classified as PBT or vPvB according to the currently valid EU classification criteria
12.6	Other harmful effects	None known
	Endocrine-disrupting properties	The data available on the substance were evaluated according to the criteria described in the Regulations ((EC) No 1907/2006, (EU) 2017/2100, (EU) 2018/605) and these were found to be not applicable.

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Section 13: Disposal instructions

13.1 Waste treatment process

General information

This mineral can be disposed of as non-toxic/inactive material at a regulated landfill in accordance with local regulations. Avoid dust formation from residues in packaging. Ensure adequate health protection for employees. Store contaminated packaging materials in closed containers. Recycling and disposal of packaging material must be carried out in accordance with local regulations. Do not reuse packaging material. Recycling and disposal of packaging material should be carried out by a certified waste disposal company.

Disposal methods

As far as possible, recycling has priority over disposal. Disposal must be carried out in accordance with regional regulations.

Waste class

The contaminated absorbent material can be just as dangerous as the spilled material.

Section 14: Transport information

The material is not classified as a hazardous substance and is not subject to any restrictions for land, sea and air transport (IMDG, IATA, ADR/RID). Avoid generation and dispersion of dust.

14.1 UN Number

No information required.

14.2 Proper shipping name UN shipping name

No information required.

14.3 Transport hazard classes

No information required.

14.4 Packaging group

No information required.

14.5 Environmental hazards

Environmentally hazardous substance/marine pollut: No.

14.6 Special precautions for the user

Not applicable. Avoid the release of dust during transport with airtight containers for powders and covered lorries for other dry forms.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 + according to Annex II of MARPOL 73/78.

IBC-Code

Technischer Name ist Diatomaceous earth

No special transport regulations must be observed

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Section 15: Legislation

15.1 Regulations on safety, health and environmental protection/ specific legislation for the substance or mixture

EU legislation

Ausnahmen von der Verpflichtung, die gemäß Anhang V.7 von REACH registrieren

Water hazard class (WGK):

substance not hazardous to water (identification no. 765)

15.2 Chemical safety assessment

Exempted from REACH registration according to Annex V.7.

Section 16: Other information

Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service.

EC: European Commission

EC50: The effective concentration of a substance that causes 50% of the maximum possible reaction.

FFP: Particle-filtering half mask

IMDG: International Maritime Dangerous Goods Code.

IATA: International Air Transport Association.

LC50: lethal concentration for 50% of a test population.

OECD: Organisation for Economic Co-operation and Development

OEL: Occupational Exposure Limit

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative.

REACH: Regulation on the Registration, Evaluation, Authorisation and Restriction of Chemicals, Regulation (EC) No 1907/2006.

RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.

SDS: Safety Data Sheet

TWA: time weighted average

UVCB = Unknown or variable composition, complex reaction products and biological materials.

General information

Workers must be informed about the silica content of the product and must be informed in writing, and trained in the proper handling of the product. On 25 April 2006 a cross-industry agreement on the health protection of employees by the proper handling and use of crystalline silica and this and products containing it. This autonomous agreement, which was signed by the financially supported by the European Commission, is based on a guideline on best practices. The provisions laid down in the agreement entered into force on 25 June 2016. October 2006. The Convention was published in the Official Journal of the European Union (2006/C 279/02). The text of the agreement, its annexes and the guidebest practice guide are available at [tp://www.nepsi.eu](http://www.nepsi.eu) and provide useful information and guidance for the handling of products containing crystalline silica. containing crystalline silica (fine fraction). Literature references are available from EUROSIL (European Association of Industrial Quartz Manufacturers). Long-lasting and/or intensive exposure to dust containing respirable crystalline silica may cause cause silicosis. This disease is a nodular pulmonary disease characterised by fibrosis caused by inhalation and deposition of mineral dust. 1997 the International Agency for Research on Cancer (IARC) came to the conclusion that the exposure to crystalline silica in the workplace can cause lung cancer in humans. can cause lung cancer in humans. However, the IARC qualified this by stating that this does not apply to all forms of exposure nor all types of crystalline silica. (IARC monographs on the evaluation of cancer risks to humans from chemicals, Silicon dioxide, silica-containing dusts and organic fibres, 1997, Volume 68, IARC, Lyon, France).

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In 2009, the IARC confirmed in the monographs of the 100 series its classification of Silica dust, crystalline, in the form of quartz and cristobalite (IARC Monographs, Vol. 100C, 2012). In June 2003, the SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the most important effect of inhaling respirable crystalline silica dust in humans is silicosis. There are sufficient information is available to conclude that there is an increased relative risk of lung cancer for people suffering from silicosis. In quarries or in the quarries or in the ceramics industry who are exposed to silica dust but do not suffer from silicosis are apparently not affected by this increased risk of lung cancer. It can therefore be assumed that avoiding silicosis also reduces the risk of cancer. reduced..." (SCOEL SUM Doc 1994-final, June 2003). So there are numerous indications that an increased risk of lung cancer is limited to people who already suffer from already suffering from silicosis. The protection of workers from silicosis should be ensured by compliance with occupational exposure limits set by the authorities and, if necessary, by implementation of additional risk management measures.

Important literature references and data sources

IDPA Guide for Safe Handling European version - final (low resolution)

https://www.nepsi.eu/sites/nepsi.eu/files/content/document/file/idpa_guide_for_safe_handling_european_version_-final_low_resolution.pdf

Reasons for change

Most of the 16 sections have been updated according to the revised ECHA guidance for the preparation of safety data sheets (version 3 of August 2015).
formatted. Therefore, the present SDS has been redrafted and replaces the submitted previous SDS.

Change date 27.10.2025

Amendment 2

This Safety Data Sheet (SDS) is based on the legal provisions of the REACH Regulation (EC No. 1907/2006); Article 31 and Annex II) in its current version. Its content serves as a guideline for the proper, careful handling of the material. handling of the material. Recipients of this SDS must ensure that the information it contains is understood by all persons who may use, handle or dispose of the product or who may come into contact with the product in any way. the product are properly read and understood. The information and instructions contained in this SDS information and instructions contained in this SDS are based on the current state of scientific and technical knowledge at the stated date of preparation. It should not be construed as a guarantee of technical performance or suitability for any specific applications and does not constitute the basis for a legally valid contractual relationship. This version of the SDS replaces all previous versions