

Safety data sheet

In accordance with Regulation (EC) No. 1907/2006 and 453/2010

Trade name : CERATEC
Revised on : 2017-10-25
Printing date : 2017-10-20

Version : EN 2.1



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1. Identification of the mixture and of the company

1.1 Identification of the mixture:

Designation on the label/trade name:
CERATEC

Other designations:
Bauxite sand

Note:

In accordance with the REACH regulation, Article 2(7), the mixture is not subject to mandatory registration.

1.2 Use of the mixture:

1.2.1 Identified uses:

The mixture is intended for professional users.

Auxiliary material for the foundry industry, blasting agent for surfaces of all types²

1.2.2 Uses advised against:

Uses other than the identified uses.

No uses in the private sphere.

1.3 Name of the company:

Supplier (manufacturer/dealer):
For Germany/ EU interior:

GTP Schäfer GmbH
Benzstrasse 15
41515 Grevenbroich
Germany

E-mail (responsible person):

info@gtp-schaefer.de

Contact for information:

GTP Schäfer GmbH
Benzstrasse 15
41515 Grevenbroich
Germany

Tel.: +49 2181 233 94-0

Fax: +49 2181 233 94-55

E-mail: info@gtp-schaefer.de

National contact:

GTP Schäfer GmbH
Benzstrasse 15
41515 Grevenbroich
Germany

Tel.: +49 2181 233 94-0

Fax: +49 2181 233 94-55

E-mail: info@gtp-schaefer.de

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1.4 Emergency call number:

GTP Schäfer GmbH
Benzstrasse 15
41515 Grevenbroich

Tel.: +49 2181 233 94-0 (This number is staffed only during office hours.)

Mobile: +49 0172 / 202 67 64

2. Hazards identification

2.1 Classification:

This mixture contains hazardous ingredients (s. Chapter 3.2) which, however, should not be released under normal or reasonably foreseeable conditions of use.

The mixture is not classified as hazardous according to the meaning of Regulation (EC) 1272/2008 and also does not fall within the labelling range of this regulation; nor are sufficient data available for such a classification.

2.2 Additional human and environmental risk indications:

When used correctly, there will be no release beyond the emission control limitations.
Please observe the information in the safety data sheet in every case.

3. Composition/information on ingredients:

3.1 Information on the mixture:

Description:

Mixture of aluminium oxide (main ingredient), silicium dioxide (silica sand), di-iron trioxide and various mineral oxides as subsidiary components with shares of < 5% (w/w) each.

3.2 Hazardous ingredients:

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Chemical designation	CAS No.:	EC No.:	INDEX- No.:	REACH Reg. No.:	Content (%)	Classification as per Reg. (EC) 1272/2008		Marking Pictogram	Safety notes P statements	Remark
						Signal words	Hazard notes H statements			
Di-iron trioxide	1309-37-1	215-168-2	N/A	01-2119457 614-35	≤ 5	N/A	H411	GHS09	273	Present in bound form

Non-hazardous ingredients:

Chemical designation	CAS No.:	EC No.:	INDEX- No.:	REACH Reg. No.:	Content (%)	Classification as per Reg. (EC) 1272/2008		Marking Pictogram	Safety notes P statements	Remark
						Signal words	Hazard notes H statements			
Aluminium oxide	1344-28-1	215-691-6	N/A	01-2119529 248-35	≥ 75	N/A	N/A	N/A	N/A	Present in bound form
Silicium dioxide (silica sand)	14808-60-7	238-878-4	N/A	N/A	10 - 20	N/A	N/A	N/A	260,270,314	
Titanium dioxide	236-675-5	13463-67-7	N/A	01-2119489 379-17	2 - 5	N/A	N/A	N/A	N/A	Present in bound form

N/A = no data

3.3 Note:

The abbreviations not fully written out in this section are listed in chapter 16, likewise safety notes on the ingredients used.

4. First aid measures:

4.1 General notes:

Even though the mixture is classified as not hazardous, accidents (e.g. incorporations) may possibly require first aid and medical treatment.

4.2 Following inhalation:

Move affected person into fresh air in a warm and restful position.

Administer oxygen in the event of breathing difficulties.

Consult doctor if respiratory tracts are irritated.

4.3 Following skin contact:

No special measures necessary; washing with water and soap is recommended.

Consult doctor in the event of skin reactions, reddening or pain.

4.4 Following eye contact:

After contact with eyes (dusts), immediately rinse under running water with opened eyelids for 10 to 15 minutes.

Consult eye specialist if eyes are irritated.

4.5 Following ingestion:

After swallowing, thoroughly rinse mouth with water (only if affected person is conscious) and immediately allow to drink; summon medical aid.

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4.6 Self-protection for first aid helpers:

While rescuing persons from danger zone: do not disregard your own safety!

4.7 Information for physicians:

Symptoms:

Following dust inhalation:

No acute symptoms to be expected.

Treatment:

Notes on treatment by a doctor can be obtained from literary sources including the following:

IFA Gestis substance database

Kühn/Birett

Treating symptomatically.

5. Firefighting measures

5.1 Suitable extinguishing media:

The product is inert and neither combustible nor flammable. In case of fire, sprayed water or CO₂ are suitable.

Adapt extinguishing measures to the surroundings.

5.2 Extinguishing media unsuitable for safety reasons:

Not applicable

5.3 Special hazards arising from ingredient substances or the mixture itself, its combustion products or resulting gases:

Not applicable

5.4 Special protective firefighting equipment:

No special measures necessary.

Fire class:

Not applicable

5.5 Additional information:

Collect contaminated extinguishing water separately. Do not allow it to enter the sewage system, the ground or bodies of water. Cool down surrounding areas as far as possible.

6. Accidental release measures:

6.1 Personal precautions:

Avoid dust development; vacuum-extract dust without whirling it up

Ensure adequate ventilation.

Use suitable respiratory protection.

6.2 Environmental precautions:

Do not allow product or product residues to enter the sewage system, bodies of water or the ground.

Ensure that waste is gathered and safely stored in closed containers.

6.3 Cleaning methods:

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Collect mechanically (avoid dust development) and convey to disposal in suitable containers.
Treat the collected material in accordance with the section on disposal.

6.4 Additional information:

The need to observe the protective measures in Chapters 7, 8 and 13 is pointed out.

7. Handling and storage:

7.1 Handling:

Observe product information/technical data sheet.
Remove packing only immediately before use.

7.1.1 Precautions for safe handling:

Avoid dust formation.
Observe the usual precautionary measures for handling chemicals/hazardous substances.
Thoroughly wash hands and face before work breaks and at the end of the working day.

Protective measures:

Technical measures:

Measures to prevent aerosol and dust formation:

Dust should be vacuum-extracted at the immediate source; avoid dust formation (e.g. do not pour).
Provide exhaust air purification if necessary.

Environmental protection measures:

No special measures required.
Treat product residues in accordance with statutory requirements.

Specific requirements or handling rules:

Do not eat, drink, smoke or take snuff at the workplace.
Wash hands and/or face before work breaks and at the end of the working day.
Keep away from foodstuffs, beverages and fodder.
Do not inhale dusts.
Use only operationally required volumes of product.

7.1.2 Information on precautions against fire and explosions:

The product is inert, non-combustible and non-flammable.

Avoid dust deposits/regularly remove dust deposits.
Observe the usual precautionary fire protection measures.

No further special measures are necessary.

7.2 Storage:

7.2.1 Technical measures and storage conditions:

Keep containers tightly closed.
Otherwise no special measures.

7.2.2 Packaging materials:

Keep/store only in the original container.

7.2.3 Requirements for storage rooms and vessels:

No special requirements; do not store outside; dry storage.

7.2.4 Notes on combined storage with other materials

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Do not store together with:

Foodstuffs and fodder

Explosive substances (TRGS [Technical Rules for Hazardous Substances] 510 storage class 1)

Substances with igniting (oxidizing) properties (TRGS 510 storage class 5.1A)

Infectious substances (TRGS 510 storage class 6.2)

Radioactive substances (TRGS 510 storage class 7)

Do not store together with powerful acids or lyes. Store separately from oxidants and reduction agents.

Observe limitations and requirements for combined storage in accordance with TRGS 509 / TRGS 510 in the case of:

Gases (storage class 2A)

Aerosol dispensers (storage class 2B)

Inflammable liquid substances (storage class 3)

Other explosive substances (storage class 4.1A)

Pyrophoric or self-heating substances (storage class 4.2)

Substances that form inflammable gases in contact with water (storage class 4.3)

Oxidants (storage class 5.1 B)

Ammonium nitrate and preparations containing ammonium nitrate (storage class 5.1 C)

Organic peroxides and spontaneously decomposable substances (storage class 5.2)

Combustible acutely toxic substances (storage class 6.1A)

Non-combustible acutely toxic substances (storage class 6.1 B)

7.2.5 Further data on storage conditions:

Storage temperature (°C): + 5 to + 30 °C

Rel. air humidity (%): Store dry / protect from moisture

Storage stability: No data.

Maximum storage period: The maximum recommended storage duration is 1 year. According to experience, the product can be used after the maximum storage duration. No guarantee can be given that the warranted characteristics of the product are effective after expiry of the maximum storage duration.

Storage class: 13 - non-flammable solids (as per TRGS 509 / TRGS 510) (recommended)

7.2.6 Specific use:

Recommendation: Observe product information/technical data sheet

8. Exposure controls/personal protection:

8.1 Exposure limits:

8.1.1 Components with workplace or biological limits that require monitoring:

8.1.1.1 Occupational limits:

Air limits:

Type of limit (country of origin)	Working material	EC No.	CAS No.	Workplace limit		Recomm- ended monitoring procedure	Peak limit	Source
Germany	Dusts (for dusts with a density of 1 g/cm ³)	N/A	N/A.	4 mg/m ³ (inhalable aerosol fraction)	0.3 mg/m ³ (alveolene- penetrant aerosol fraction)	N/A	Not exceeding double the general dust limit	DFG ³ [German Research Foundation]
No adequate, product-related data available.								

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Type of limit (country of origin)	Working material	EC-No.	CAS-No.	Occupational exposure limit		Recommend ed monitoring process	Peak limit	Source
				Long-term	Short-term			
Germany	Aluminium oxide	215-691- 6	1344-28-1	N/A	N/A	N/A	Carcinogenic substance, Cat. 2, N/A of a harmless peak limit	DFG
Germany	Titanium dioxide	236-675- 5	13463-67-7	N/A	N/A	N/A	Carcinogenic substance, Cat. 3a, N/A of a harmless peak limit	DFG
Germany	Carbon monoxide	211-128- 3	630-08-0	35 mg/m ³	70 mg/m ³	N/A	15 min, max. 4- times/ shift, interval 1 h	DFG
Germany	Carbon dioxide	204-696- 9	124-38-9	9.100 mg/m ³	18.200 mg/m ³	N/A	15 min, max. 4- times/ shift, interval 1 h	DFG

Biological limits:

Type of limit (country of origin)	Working material	EC No.	CAS No.	Parameters	Limit	Investigated material	Source	Remark
Germany	Carbon monoxide	211- 128-3	630-08-0	CO-Hb	5%	blood	DFG	At end of shift
No adequate, product-related data available.								

Ceramic beads contain natural radionuclides. The 2013/59/EURATOM guideline mentions values of 1 Bq/g for all radionuclides of the U-238 and TH-232 decay series as well as 10 Bq/g for K-40 as exemption levels for the specific activity of materials with naturally occurring radionuclides. The specific activity of all radionuclides of these decay series contained in the product CERATEC lies below these exemption limits.

8.1.1.3 DNEL/DMEL and PNEC values:

No adequate, product-related data available.

8.2 Limiting and monitoring exposure:

8.2.1 Limiting and monitoring exposure at the workplace:

Instructive measures to avoid exposure:

Only use for intended purpose is permissible. Safety notes on handling the mixture are listed in Chapter 16.

Organisational measures to avoid exposure:

Only use for intended purpose is permissible. The occupational exposure limit values must be observed. The European guideline EN 689 on assessing exposure to chemical substances is referred to.

Technical measures to avoid exposure:

See Chapter 7. No further measures are necessary.

Technical measures and the application of suitable work methods have priority over the use of personal protective equipment.

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Personal protective equipment:

Respiratory protection: Under normal circumstances personal respiratory protection is unnecessary.

Respiratory protection is required in the event of:
Inadequate ventilation

Insufficient vacuum extraction

Dust development

Suitable respiratory protection device:

Particle filter device (DIN EN 143).

Filter P2 / P3

Hand protection: Under normal circumstances hand protection is unnecessary; depending on the other applied substances, the use of gloves is recommended. The use of skin protection agents that are not soluble in water is recommended.

Eye protection: Frame glasses with side protection (as per EN 166).

Body protection: Long-sleeved protective work clothes.

Hygiene: After handling the mixture, hands, forearms and face should be washed, especially before work breaks or at the end of the working day.

8.2.2 Limitation and monitoring of environmental exposure:

Product-related measures to avoid exposure:

No special measures required.

Instructive measures to avoid exposure:

Handle product only according to its intended use.

Organisational measures to avoid exposure:

Low-dust handling.

Use only required volumes of the product.

Technical measures to avoid exposure:

Effective vacuum extraction of dusts at their source.

9. Physical and chemical properties:

9.1 General data ¹⁾

Appearance: Grainy/powdery

Aggregate condition: firm colour: grey/black odour: odourless

9.2 Important data on health and environmental protection as well as safety:

Safety-related base data of the mixture¹⁾:

	Value	Method	Remark
pH value (20°C):	7.2 – 7.6		
Melting point/range (°C):	> 1,790 °C	No data	
Boiling point/range (°C):	Not applicable		
Flashpoint (°C):	Not applicable		Mixture is not inflammable
Ignition temperature:	Not applicable		Mixture does not self-ignite

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Steam pressure:	Not applicable		
Density (g/cm ³):	Not applicable		
Bulk density (g/cm ³):	1.95 – 2.05 ¹⁾	No data	
Water solubility (20°C in g/l):	Practically insoluble	No data	
Distribution coefficient n-octanol/water (log Pow):	Not applicable		
Viscosity, dynamic (mPa*s):	Not applicable		
Dust explosion potential:			
Explosive limits	Not applicable		
Lower:			
Upper:			

10. Stability and reactivity:

10.1 Conditions to be avoided:

No special measures required.

10.2 Substances to be avoided:

Not known.

10.3 Hazardous decomposition products:

The product is inert, non-combustible and non-flammable.

11. Toxicological data

11.1 Toxicokinetics, metabolism and distribution:

Human toxicological data:

No adequate, product-related data relevant for classification are available.

Acute effects (toxicological effects):

No adequate, product-related data relevant for classification are available

11.2

	Effective dosage	Species	Method	Remarks
Acute oral toxicity	LD ₅₀ /14d: >5.000 mg/kg	Rat	EU B.1	Related to di-iron trioxide
Acute oral toxicity	LD ₅₀ /14d: >10.000 mg/kg	Rat	OECD 401	Related to aluminium oxide
Acute oral toxicity	LD ₅₀ /14d: >5.000 mg/kg	Rat	OECD 425	Related to titanium dioxide
Acute oral toxicity	LC ₅₀ /4h: 5,05 g/m ³	Rat	OECD 403	Related to di-iron trioxide
Acute oral toxicity	LC ₅₀ /4h: > 2.300 mg/m ³	Rat	OECD 403	Related to aluminium oxide
No adequate, product-related data relevant is available				

Specific target organ toxicity (STOT):

No adequate, product-related data are available.

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	Duration of exposure	Species	Evaluation	Method	Remarks
Primary irritant effect on skin	24 / 48 / 72 h	Rabbit	No irritation	OECD 404	Related to di-iron trioxide
Primary irritant effect on skin	24 / 72 h	Rabbit	No or weak skin irritation; not relevant for classification	OECD 404	Related to aluminium oxide
Primary irritant effect on skin	24 / 48 / 72 h	Rabbit	No irritation	OECD 404	Related to titanium dioxide
Eye irritation	14 d	Rabbit	no irreversible damage	OECD 405	Related to di-iron trioxide
Eye irritation	24- / 48- / 72-h / 7-d	Rabbit	Eye redness; not relevant for classification	FDA-Draize Test in-vivo	Related to aluminium oxide
Eye irritation	24- / 48- / 72-h	Rabbit	No irritation	OECD 405	Related to titanium dioxide
No adequate, product-related data relevant is available.					

Oral toxicity:

No adequate, product-related data are available

Dermal toxicity:

Contact with dusts causes irritation of the skin and mucous membranes.

Inhalative toxicity:

Inhalation of dusts can cause irritation of respiratory passages (nose and throat area) and impair breathing.

Eye irritation:

No adequate, product-related data available: contact with dusts can cause mechanical irritation and injuries.

Sensitization:

No adequate, product-related data available.

Following skin contact: Titanium dioxide: no sensitisation to guinea pigs according to OECD 406

Following inhalation: No adequate, product-related data available.

Toxicity after repeated absorption (subacute, sub-chronic, chronic):

Titanium dioxide: A 90-d test according to OECD 408 on rats gave a NOAEL of 962 mg/kg bw/d

Repeated inhalation of high dust volumes can lead to irritation of mucous membranes and impairment of the respiratory tract as well as to coughing, throat inflammation, sneezing attacks and shortness of breath.

Specific symptoms in animal tests:

No adequate, product-related data relevant to classification are available.

Oral toxicity:

No adequate, product-related data available.

Dermal toxicity:

No adequate, product-related data available.

Inhalative toxicity:

No adequate, product-related data available.

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Sensitisation:

No adequate, product-related data available.
Following skin contact: Titanium dioxide: no sensitisation to guinea pigs according to OECD 406

Following inhalation: No adequate, product-related data available.

Toxicity after repeated absorption (subacute, sub-chronic, chronic):

No adequate, product-related data available.

CMR (carcinogenic, mutagenic or reproductive toxicity) effects:

Aluminium oxide:

Carcinogenicity: Carcinogenic substance, Cat 2; considered to be carcinogenic for humans (limited data for hamsters, guinea pigs and rats). Can also cause cancer on repeated inhalation as well as inter-tracheal administration of dust.

Titanium dioxide (inhalable fraction, except: ultrafine particles):

Carcinogenicity: Carcinogen, category 3A; generates cancer in humans and animals or considered to be carcinogenic for humans (limited data for rats, carcinogenic potential after repeated inhalation exposure).

Carcinogenicity: No adequate, product-related data available.
In-vitro mutagenicity: No adequate, product-related data available.
In-vivo mutagenicity: No adequate, product-related data available.
Germ cell mutagenicity: No adequate, product-related data available.
Toxicity to reproduction: No adequate, product-related data available.

11.3 Praxis-based experience

Observations relevant to classification: No data available on handling of product.
Other observations: No data available on handling of product.

11.4 General observations:

No observations/data available on handling of product.

12. Ecological information:

12.1 Ecotoxicity:

Aquatic toxicity	Effective dose	Exposure time	Species	Method	Evaluation	Remark
Acute fish toxicity	LC ₉₀ : 100 g/ml	96 h	Fish	N/A		Related to di-iron trioxide
Acute daphnia toxicity	EC ₅₀ : ≥ 100 mg/l	48 h	Daphnia	OECD 202	No toxic effects	Related to di-iron trioxide

No adequate, product-related data relevant to classification are available. Due to the inert character of the mixture, no harmful effects on the biotic and abiotic environment can be expected.

12.2 Mobility:

Known or anticipated distribution among environmental compartments:

No data available on surface tension or adsorption/desorption.

12.3 Persistence and degradability:

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Due to the inert character of the mixture (composed of non-degradable, inorganic substances), no data are available either on physico- or photochemical elimination, or on bioaccumulative potential.

Di-iron trioxide: Biological degradation test according to ISO 8192: EC₅₀ / 3 h: > 10 g/l

12.4 Results of PBT assessment:

This substance does not fulfil the criteria for classification as a PBT or vPvB.

12.5 Other harmful effects:

No data known.

12.6 Further ecological information:

Separation of the aqueous phase through filtration is possible.

13. Disposal considerations

13.1 Disposal/waste (product):

Unused product:

Contact manufacturer about recycling. Investigate possible re-use.

Otherwise disposal in accordance with Recycling and Waste Management Law (KrWG): hazardous waste in accordance with § 3 Abfallverzeichnisverordnung (AVV) [Section 3, Waste Index Ordinance]

Used product:

Disposal according to Recycling and Waste Management Law (KrWG).

13.2 EAK/AVV waste codes:

List of proposals for waste codes/waste designations in accordance with AVV:

Unused product:

10 10 06 casting moulds and sands after casting, excepting those listed under 10 10 05*.

Used product:

10 10 08 Casting moulds and sands after casting, excepting those listed under 10 10 07.

13.3 Packaging:

Uncontaminated packaging emptied of residues can be re-utilised.

14. Logistical information

14.1 Land transport (ADR/RID):

Official designation: Not classified for this transport mode.
Class:
Classification code:

Hazard label:
UN No.:
Packaging group:

Maritime transport (ADN(R)/IMDG):

Official designation: Not classified for this transport mode.
Class:
Classification code:

Hazard label:
UN No.:
Packaging group:

Air transport (ICAO/IATA):

Official designation: Not classified for this transport mode.

Hazard label:

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Class:
Classification code:

UN No.:
Packaging group:

15. Regulatory information

15.1 EU regulations

Safety assessment of substances:

Registration dossiers were compiled for individual substances in this mixture:

- Registration dossiers on aluminium oxide, di-iron trioxide and titanium dioxide by the European Chemical Agency (ECHA).

Labelling:

Danger symbols and hazard designations:

Hazard-determining components for labelling:

H statements:

P statements:

Special labelling:

Not applicable, since not subject to labelling

Not applicable, since not subject to labelling

Not applicable, since not subject to labelling

Not applicable, since not subject to labelling

Restrictions on approval and/or use:

Approvals:

No data

Use restrictions:

No data

15.2 National regulations (Germany)

Information on occupational restrictions:

The respective national regulations on occupational protection of young people and expectant mothers must be observed.

Hazardous incident regulations: 12. BImSchV [12th Federal Emission Control Ordinance]:

Not subject to 12. BImSchV.

Wassergefährdungsklasse [water hazard class]:

Not hazardous to waters according to VwVws [Regulation on Classification of Substances Hazardous to Waters], Annex 1 (self-classification), related to the individual substances and the mixture.

Technische Anleitung Luft: air pollution regulations:

The emission limit for dust (total dust, including fine dust) must be complied with (20 mg/m³).

Other regulations, limitations and prohibitions:

TRGS 900 [Technical rule for Hazardous Substances] limits on air at the workplace; DFG [German Research Foundation]

16. Other information

16.1 Wording of the H and P statements:

Complete wording of the H and P statements of the individual components of the mixture mentioned in Chapter 3, the mixture itself and abbreviations of the designations of individual substances mentioned in Chapter 2:

Hazard information:

H411 Toxic to water organisms, with long-term effect

Safety information:

Prevention:

P260 Do not inhale dust, smoke, gas, mist, steam, aerosol

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P270 Do not eat, drink or smoke after use
P273 Avoid release into the environment

Reaction:

P314 Obtain medical advice, summon medical assistance if affected person feels ill.  Full stop.

16.2 Training information:

Employees must be regularly instructed about the scope and the associated danger in accordance with the legal requirements.

16.3 Recommended limitation of use:

No private use.

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16.4 Further information:

The statements in this safety data sheet reflect our information to the best of our knowledge at the time of going to print. The information is meant to indicate to you how to safely store, process, transport and dispose of the mixture referred to in the safety data sheet. The information cannot be applied to other mixtures. In as far as the mixture referred to in the safety data sheet is combined, mixed or processed with other materials, or is subjected to processing, the information in this safety data sheet cannot be applied to the accordingly produced new material, to the extent that nothing explicitly to the contrary transpires.

16.5 Data sources:

- 1.) Current safety data sheets of the ingredients
- 2.) Technical data sheet CERATEC B/CERATEC C, GTP Schäfer GmbH
- 3.) IFA GESTIS Material database, Institute for Occupational Health and Safety of German Statutory Accident Insurance
- 4.) DFG (German Research Foundation) – list of MAK and BAT values, "Mitteilungen 52" bulletin, Wiley-VCH, 2016
- 5.) ECHA/EU – REACH registration dossier aluminium oxide, status 23.03.2017
- 6.) ECHA/EU – REACH registration dossier di-iron trioxide, status 02.10.2017
- 7.) ECHA/EU – REACH registration dossier titanium dioxide, status 07.06.2017
- 8.) RIGOLETTO database "Catalogue of substances hazardous to waters" of the Federal Office for the Environment (UBA); status: 30/12/2012
- 9.) TA-Luft 2002
- 10.) TRGS 900 Technical Rules for Hazardous Substances – workplace limit values; status: 2012
- 11.) TRGS 509 Technical regulations for hazardous materials – Storage of hazardous liquids and solid substances in stationary tanks; status: 30.11.2015
- 12.) TRGS 510 Technical regulations for hazardous materials – Storage of hazardous substances in mobile containers; status: 30.11.2015