

Safety data sheet

according to Regulation (EC) No. 1907/2006 and (EU) 2020/878

Trade name: Cores CB
Revised on: 27/06/2023
Print date: 27/06/2023

Version: DE 3.0
Replaces version DE 2.1



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1. Designation of the product and company name

1.1 Name of the product:

Designation on the label / trade name:

Cores CB

Other designations:

cold box bonded moulding

Note:

The product is not subject to registration according to REACH Regulation, Article 2(7).

1.2 Use of the product:

1.2.1 Identified uses:

The product is intended for the professional user.

Auxiliaries for the foundry industry, use in the form of finished products

1.2.2 Uses advised against:

Uses outside of the identified uses.

No applications in the private sector.

1.3 Identification of the company:

Supplier (manufacturer / dealer):

For Germany / EU domestic:

GTP Schäfer GmbH
Benzstrasse 15
41515 Grevenbroich
Germany

Email (competent person):

info@gtp-schaefer.de

Contact point for information:

GTP Schäfer GmbH
Benzstrasse 15
41515 Grevenbroich
Germany

Phone: +49 2181 233 94-0

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National contact:

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Safety data sheet

according to Regulation (EC) No. 1907/2006 and (EU) 2020/878



Trade name: Cores CB
Revised on: 27/06/2023
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Version: DE 3.0
Replaces version DE 2.1

1.4 Emergency number:

GTP Schäfer GmbH
Benzstrasse 15
41515 Grevenbroich

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

Mobile: +49 172 2026764

2. Possible hazards

2.1 Classification:

This product (material) contains hazardous ingredients or mixtures (see chapter 3.2) which are not intended to be released under normal or reasonably foreseeable conditions of use.

The product (material) is not classified as hazardous within the meaning of Ordinance (EG) 1272/2008 and is not included under the labelling area of this ordinance; there are also not sufficient data available for classification.

2.2 Additional hazard warnings for humans and the environment:

The product (material) releases hazardous substances when thermally decomposed as intended.

May form nitrous gases (nitrogen oxides), hydrogen cyanide (hydrocyanic acid), carbon monoxide/dioxide, soot, hydrocarbons, formaldehyde, phenol or possibly ammonia during the casting process alone or in contact with acids or alkalis, depending on the reaction conditions.

Avoid release to the environment in excess of immission control limits for the intended use.

May cause harmful effects if swallowed, inhaled or if in contact with skin.

3. Composition / information on the ingredients:

3.1 Product information:

Description:

Cold-box bonded moulding (product) of silicon dioxide (silica sand) and organic binders, .

3.2 Hazardous ingredients:

Chemical name	CAS No.:	EC no.:	INDEX No.:	REACH Reg. no.:	Content (%)	Classification according to Ordinance (EG) 1272/2008			Identification Pictogram	Safety instructions P-statements	Remark
						Signal values	Category	Hazard warnings H-statements			
Isocure GTP 1 Part 1 (resin)	n/a	n/a	n/a	n/a	≤ 1	Hazard	Acute Tox. (oral) 4; Skin Corr. 1B; Eye Dam. 1; Muta. 2;	H302 H314 H341	GHS05 GHS07 GHS08 EU208	201,280, 301+330+331, 303+361+353, 304+340, 305+351+338, 310	Exists in bound form
Isocure GTP 2/1 Part 2 (binder)	n/a	n/a	n/a	n/a	≤ 1	Hazard	Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2; Acute Tox. (inhal.) 4; Resp. Sens. 1; STOT (Single Resp. Expo.) 3; STOT (Resp. Expo.) 2;	H315 H317 H319 H332 H334 H335 H351 H373	GHS07 GHS08 EU204	201,260,280, 284, 304+340, 312, 362+364	Exists in bound form

n/a = no information

Safety data sheet

according to Regulation (EC) No. 1907/2006 and (EU) 2020/878

Trade name: Cores CB
Revised on: 27/06/2023
Print date: 27/06/2023

Version: DE 3.0
Replaces version DE 2.1



No hazardous ingredients:

Chemical name	CAS No.:	EC no.:	INDEX No.:	REACH Reg. no.:	Content (%)	Classification according to Ordinance (EG) 1272/2008			Identification Pictogram	Safety instructions P-statements	Remark
						Signal values	Category	Hazard notices H-statements			
Silicon dioxide (quartz sand)	14808-60-7	238-878-4	n/a	01-21207705 09-45	≤ 100	n/a	n/a	n/a	n/a	260.270, 314	Exists in bound form

n/a = no information

3.3 Remark: Classifications not completely written out in this section are listed in chapter 16, as well as safety instructions for the ingredients used.

4. First aid measures:

4.1 General information:

Even if the product (substance) is not classified as dangerous, first aid and medical treatment may be required in case of accidents (e.g. intake) and even if poisoning is suspected.

4.2 In case of inhalation:

After inhalation of thermal decomposition products (e.g. nitrous gases, hydrogen cyanide, carbon monoxide / dioxide, phenol, ammonia), remove the affected person to fresh air and keep calm.
In case of irritation of the respiratory tract / breathing difficulties, consult a doctor immediately.

4.3 In case of contact with the skin:

In case of skin contact, wash thoroughly with plenty of soap and water.
In case of skin reactions, redness or pain, consult a doctor.

4.4 In case of contact with eyes:

In case of contact with eyes (dusts/thermal decomposition products), immediately rinse with running water for 10 to 15 minutes with the eyelids open and consult an ophthalmologist. For contact lens wearers, remove contact lenses immediately and rinse eyes.
If eye irritation occurs, consult an ophthalmologist.

4.5 In case of swallowing:

If large quantities of dust are swallowed or inhaled, have them drink immediately.
Do not induce vomiting.
If swallowed, rinse the mouth with plenty of water (only if the person is conscious) and get medical help immediately.

4.6 Self-protection of the first aider:

When rescuing from a danger area: Pay attention to self-protection!

4.7 Information for the doctor:

Symptoms:

After inhalation of dust:

No acute symptoms expected.

Safety data sheet

according to Regulation (EC) No. 1907/2006 and (EU) 2020/878

Trade name: Cores CB
Revised on: 27/06/2023
Print date: 27/06/2023

Version: DE 3.0
Replaces version DE 2.1



After inhalation of thermal decomposition products:

Nitrous Oxides: Depending on the concentration, rapid narcotic effect up to oxygen deprivation symptoms. The development of pneumonia (with or without preceding pulmonary oedema) can still occur after 10-30 days as a late consequence of acute poisoning. Damage to the blood count / neurological damage.

Hydrogen cyanide, hydrocyanic acid: Irritation of mucous membranes, burning sensation on the tongue, metallic-scratchy taste in mouth and throat; depending on concentration, gradual to sudden onset of systemic effects.

Formaldehyde: Irritation of the nasopharyngeal mucous membranes (burning, sneezing, rhinitis), possibly asthma attacks

Phenol: Irritation of the nose and throat

Ammonia: Cough, breathing difficulties, nausea, feeling sick, later inflammation of the respiratory tract.

In case of contact with the skin:

Hydrogen cyanide, hydrocyanic acid: first irritation, then redness

Formaldehyde: concentration/time-dependent irritation to burns, allergic skin reactions

Phenol: Reddening/whitening of the contact site, later necrotisation

Ammonia: Irritation to burns

In case of contact with eyes:

Hydrogen cyanide, hydrocyanic acid: Redness

Formaldehyde: mild, reversible irritation up to permanent corneal lesion

Phenol: Corneal opacity

Ammonia: Tear irritation, burning / stabbing pain in the eye

After ingestion:

Hydrogen cyanide, hydrocyanic acid: Mucous membrane irritation

Formaldehyde: depending on concentration, irritation to burns of the mucous membranes with abdominal pain, retching cramps, cyanosis

Phenol: Burning and cauterisation of the mucous membranes, stomach pain, nausea, diarrhoea.

Hazards:

See symptoms

Treatment:

The following literature sources, as well as other information, can provide information on treatment by a doctor:

BGHM: Nitrous gases in welding and allied processes; 02-2017; DGUV-Information 209-047

BG-Information "Nitric Acid Nitrogen Oxides, Nitrous Gases" 03-1998, ZH 1/214

BG information "Hydrogen cyanide (prussic acid), cyanides", 12-1989; BGI 569

IFA-DGUV-Gestis substance database

Kühn / Birett

Treat symptomatically

5. Fire-fighting measures

5.1 Suitable extinguishing agents:

Water, foam, carbon dioxide or sand

Cover with the aforementioned extinguishing agents; adapt extinguishing measures to the surroundings.

5.2 Unsuitable extinguishing agents for safety reasons:

No unsuitable extinguishing media known.

5.3 Special hazards caused by substances or mixtures contained /the product itself, its combustion products or resulting gases:

Heating or thermal decomposition may result in the release of toxic / corrosive gases or vapours.

See also chapter 2.2

5.4 Special protective equipment for fire fighting:

Safety data sheet

according to Regulation (EC) No. 1907/2006 and (EU) 2020/878

Trade name: Cores CB
Revised on: 27/06/2023
Print date: 27/06/2023

Version: DE 3.0
Replaces version DE 2.1



SCHÄFER

Use suitable respirator (filter types A, B, K, NO-P2 or combination filter ABEK-P2)
If necessary, wear self-contained breathing apparatus.
Wear suitable personal protective equipment when fighting fires.

5.5 Additional information:

Collect contaminated extinguishing water separately. Do not allow to enter drains, soil or bodies of water.

6. Measures in case of unintentional release:

6.1 Safety measures related to persons:

Avoid contact with eyes, inhalation and ingestion of dusts; dust mask recommended.
Avoid the formation of dust; vacuum up dust without raising dust.
Keep ignition sources away.

6.2 Environmental protection measures:

Do not allow product or product residues to enter drains, water bodies or soil.
Ensure waste is collected and stored securely in closed containers.

6.3 Procedure for cleaning:

Collect mechanically (avoid the development of dust) and place in suitable containers for disposal.
Alternatively, affected surfaces can also be cleaned with a damp cloth
Treat the material taken up according to the section Disposal.

6.4 Additional information:

Attention is drawn to the observance of the protective measures in Chapters 7, 8 and 13.

7. Handling and storage:

7.1 Handling:

Only remove the packaging in layers immediately before use.
Observe product information / technical data sheet

7.1.1 Advice for safe handling:

Only intended use, e.g. in metallurgical processes, is permissible.
Avoid dust formation.
Ensure sufficient ventilation, especially in closed rooms.
The usual precautionary measures when handling chemicals / hazardous substances must be observed.
Wash hands and face thoroughly before breaks and at the end of work.

Safety measures:

Technical measures:

Measures to prevent aerosol and dust formation:

Handle products in a way that avoids abrasion and dust formation (e.g. no pouring handling).

Measures to protect the environment:

Effectively extract any thermal decomposition products that arise and, if necessary, feed them to an exhaust air purification system.
Treat product residues in accordance with legal regulations.

Specific requirements or handling rules:

Do not eat, drink, smoke or have a cold in the workplace.
Wash hands and/or face before breaks and after work.
Keep away from food, drink and animal feed.
Do not inhale dusts and thermal decomposition products.
Only use the product in quantities corresponding to operational requirements.

7.1.2 Information about fire and explosion protection:

Safety data sheet

according to Regulation (EC) No. 1907/2006 and (EU) 2020/878

Trade name: Cores CB
Revised on: 27/06/2023
Print date: 27/06/2023

Version: DE 3.0
Replaces version DE 2.1



No special fire protection measures required.
Avoid dust deposits / remove dust deposits regularly.
Observe the usual preventive fire protection measures.

7.2 Storage:

7.2.1 Technical measures and storage conditions:

Store in tightly closed containers in a cool and dry place.

7.2.2 Packing materials:

Store only in original packaging (cardboard trays).

7.2.3 Requirements for storage rooms and containers:

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

7.2.4 Notes on storage together:

Do not store together with:

food and feed
Explosive substances (Storage class 1)
Contaminable substances (storage class 6.2)
Radioactive substances (Storage class 7)
Do not store together with strong acids and alkalis. Store separately from oxidising agents and reducing agents.

Observation of restrictions and requirements for combined storage according to TRGS 509 / TRGS510 with:

Compressed, liquefied or gases dissolved under pressure (storage class 2A)
Flammable liquid or explosive substances (storage class 3A)
Explosive solids (Storage class 4.1A)
Substances liable to spontaneous combustion (storage class 4.2)
Flammable substances (storage class 5.1 B)
Flammable substances containing ammonium nitrate (storage class 5.1 C)
Organic peroxides (storage class 5.2)

7.2.5 Further information on storage conditions:

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

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

Storage stability: No information

Maximum storage period: Max. recommended storage period is 1 year. Experience has shown that the product can also be used beyond the specified maximum storage period. A warranty for the guaranteed product properties cannot be assumed after the maximum storage period has expired.

Storage class: 13 - Non-flammable solids in a non-flammable environment (according to TRGS 509 / TRGS 510) (recommended)

7.2.6 Specific use:

Recommendation: Observe product information / technical data sheet

8. Limitation and monitoring of exposure / personal protective equipment:

8.1 Exposure limits:

8.1.1 Components with workplace limit values to be monitored or biological limit values:

8.1.1.1 Occupational exposure limits:

Safety data sheet

according to Regulation (EC) No. 1907/2006 and (EU) 2020/878



Trade name: Cores CB
Revised on: 27/06/2023
Print date: 27/06/2023

Version: DE 3.0
Replaces version DE 2.1

Related to thermal decomposition products / dust emissions

Air limits:

Limit type (country of origin)	Working material	EC no.	CAS no.	Occupational exposure limit		Recommend ed monitoring procedures	Peak limit	Source
Germany	Dust (for dust with a density of 1 g/cm ³)	n/a	n/a	4mg/m ³ (inhalable aerosol fraction)	0.3 mg/m ³ (alveolar aerosol fraction)	n/a	No exceeding of the level of twice the general dust limit value	DFG

Limit type (country of origin)	Working material	EC no.	CAS no.	Occupational exposure limit		Recommend ed monitoring procedures	Peak limit	Source
				Long-term	Short-term			
Germany	Nitrous oxide (nitrous gases)	233-032- 0	10024-97-2	180 mg/m ³	360 mg/m ³	n/a	15 min, max. 4 times / shift, interval 1 h	DFG
Germany	Hydrogen cyanide (prussic acid)	200-821- 6	74-90-8	2.1 mg/m ³	4.2 mg/m ³	n/a	15 min, max. 4 times / shift, interval 1 h	DFG
Germany	Mould aldehyde	200-001- 8	50-00-0	0.37 mg/m ³	0.74 mg/m ³	n/a	15 min, max. 4 times / shift, interval 1 h	DFG
Germany	Ammonia	231-635- 3	7664-41-7	14 mg/m ³	28 mg/m ³	n/a	15 min, max. 4 times / shift, interval 1	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
No adequate product-related data available.								

n/a = no information

The formation of nitrous gases, hydrocyanic acid and ammonia cannot be ruled out when burning products from cores CB. Whether the occupational exposure limit values are exceeded when using products made from cores CB depends strongly on the conditions. Verification of compliance with the occupational exposure limits is recommended at least at the first use.

Biological limits:

Limit type (country of origin)	Working material	EC no.	CAS no.	Parameter	Limit value	Test material	Source	Remark
Germany	Phenol	203-632- 7	108-95-2	Phenol (after hydrolysis)	200 mg/l	Urine	DFG	at the end of the shift

Safety data sheet

according to Regulation (EC) No. 1907/2006 and (EU) 2020/878

Trade name: Cores CB
Revised on: 27/06/2023
Print date: 27/06/2023

Version: DE 3.0
Replaces version DE 2.1



Germany	Carbon monoxide	211-128-3	630-08-0	CO-Hb	5%	Blood	DFG	at the end of the shift
No adequate product-related data available.								

n/a = no information

8.1.1.2 DNEL- and PNEC values:

DNEL employees				
Exposure route	Duration of action	Endpoint effect	Value	Remark
No adequate product-related data available.				

DNEL user/consumer				
Exposure route	Duration of action	Endpoint effect	Value	Remark
No adequate product-related data available.				

PNEC			
Protection target	Estimation factor for extrapolation	Value	Remark
No adequate product-related data available.			

bw = body weight (body weight)
dw = dry weight

8.2 Limitation and monitoring of exposure:

8.2.1 Limitation and monitoring of exposure at the workplace:

Product-related measures to prevent exposure:

Only intended, identified use permitted. Safety instructions for handling are given in Chapter 16.

Instructional measures to avoid exposure:

Only intended, identified use permitted. Safety instructions for handling the individual components are given in Chapter 16.

Organisational measures to avoid exposure:

Only intended, identified use permitted. It must be determined whether the occupational exposure limits are complied with.

Technical measures to avoid exposure:

See Chapter 7. No additional measures are required.

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

Personal protective equipment:

Safety data sheet

according to Regulation (EC) No. 1907/2006 and (EU) 2020/878

Trade name: Cores CB
Revised on: 27/06/2023
Print date: 27/06/2023

Version: DE 3.0
Replaces version DE 2.1



<u>Respiratory protection:</u>	Normally no personal respiratory protection is required. <u>Respiratory protection is required for:</u> If technical extraction or ventilation measures are not possible or insufficient, respiratory protection must be worn (thermal decomposition products / dust). Exceedance of the respective occupational exposure limit concentration of thermal decomposition products / dust. <u>Intended use:</u> Filter unit with filter or blower filter unit type: Filter types A, B, K, NO-P2 / combination filter ABEK-P2 or fan-assisted breathing apparatus (at least TH2P). Self-contained breathing apparatus: Use at concentrations above the application limit of filter devices, at oxygen contents below 17 vol% or in unclear conditions. The wearing time limits according to GefStoffV in connection with the rules for the use of respirators (BGR 190) must be observed.
<u>Hand protection:</u>	Normally no hand protection necessary. The use of water-insoluble skin protection products is recommended. <u>In case of frequent hand contact:</u> Gloves for protection against mechanical hazards according to DIN EN 388 The wearing time limits according to GefStoffV in connection with the rules for the use of protective gloves (BGR 195) must be observed.
<u>Eye protection:</u>	In case of dust accumulation: Dust goggles with side protection (according to EN 166).
<u>Body protection:</u>	Not required. Normal long-sleeved work clothes are sufficient.
<u>Hygiene:</u>	Hands, forearms and face should be washed after handling the product, especially before breaks or at the end of work activities.

8.2.2 Limitation and monitoring of environmental exposure:

Product-related measures to avoid exposure:

No special measures required.

Instructional measures to avoid exposure:

Only handle the product within the scope of its intended use.

Organisational measures to avoid exposure:

Low-dust handling.
Only use the product (material) in the required quantities.

Technical measures to avoid exposure:

Effective extraction of thermal decomposition products at the point of origin.

9. Physical and chemical properties:

9.1 General information

Appearance: Product defined form

State of aggregation: firm Colour: sand-coloured Odour: odourless

9.2 Important health, safety and environmental information:

Product releases harmful thermal decomposition products (e.g. CO, CO₂, NO_x, soot) when used as intended.
Health hazardous dust

Safety data sheet

according to Regulation (EC) No. 1907/2006 and (EU) 2020/878

Trade name: Cores CB
Revised on: 27/06/2023
Print date: 27/06/2023

Version: DE 3.0
Replaces version DE 2.1



9.3 Safety-relevant basic data:

	Value	Method	Remark
pH value (20°C):	approx. 7	DIN 19260	Measurement in aqueous suspension
Melting point / range (°C):	Not applicable		Not applicable, as decomposition occurs
Boiling point / range (°C):	Not applicable		
Flash point (°C):	Not applicable		
Ignition temperature (°C):	Not applicable	DIN 51794	Product is not self-igniting
Vapour pressure:	Not applicable		Not applicable, as composed of non-volatile inorganic and high molecular weight organic solids
Density (g/cm³):	1,400 - 1,500	DIN 51757	
Bulk density (kg/m³):	Not determined		
Water solubility (20°C in g/l):	practically insoluble		Solubility of inorganic components to be expected
Partition coefficient n-octanol / water (log Pow):	Not determined		
Viscosity, dynamic (mPa*s):	Not applicable		Not applicable, as solid
Dust explosion ability:	Product is not dust explosive		
Explosive limits	Not applicable		
Lower:			
Upper:			

10. Stability and reactivity:

10.1 Conditions to avoid:

No special restrictions known

10.2 Substances to avoid:

Acids and oxidising agents
See also chapter 7.2.4.

10.3 Hazardous decomposition products:

Nitrous gases (nitrogen oxides)
Hydrogen cyanide (prussic acid)
Carbon monoxide / dioxide
Carbon black
Phenol
Formaldehyde
Ammonia

Exposure limit values for individual substances are listed in chapter 8.

11. Toxicological information

11.1 Toxicokinetics, metabolism and distribution:

Safety data sheet

according to Regulation (EC) No. 1907/2006 and (EU) 2020/878

Trade name: Cores CB
Revised on: 27/06/2023
Print date: 27/06/2023

Version: DE 3.0
Replaces version DE 2.1



Human toxicological data:

	Effective dose	Species	Method	Remark
No sufficient, product-related, classification-relevant data available.				

Acute effects (toxicological effects):

11.2

	Effective dose	Species	Method	Remark
Acute oral toxicity	LD ₅₀ : 1,909 mg/kg	n/a	Calculation method	Related to Isocure GTP 1 Part 1 (resin)
Acute dermal toxicity	LD ₅₀ : > 2,000 mg/kg	n/a	Calculation method	Related to Isocure GTP 1 Part 1 (resin)
Acute inhalation toxicity	LC ₅₀ : > 20 g/m ³	n/a	Calculation method	Related to Isocure GTP 1 Part 1 (resin)
Acute inhalation toxicity	LC ₅₀ /4h: 12.59 g/m ³	n/a	Calculation method	Related to Isocure GTP 2/1 Part 2 (binder)
No sufficient, product-related, classification-relevant data available.				

n/a = no information

Specific target organ toxicity (STOT) at single exposure:

No sufficient, product-related, classification-relevant data available.

Irritation and corrosion:

	Exposure duration	Species	Valuation	Method	Remark
No sufficient, product-related, classification-relevant data available.					

n/a = no information

Oral toxicity:

No sufficient, product-related, classification-relevant data available.

Dermal toxicity:

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

Isocure GTP 1 Part 1 (resin) causes burns on the skin.

Isocure GTP 2/1 Part 2 (binder) may cause skin irritation and/or dermatitis with prolonged contact.

Inhalation toxicity:

Inhalation of dusts can lead to irritation of the respiratory tract (nose and throat) and breathing difficulties.

Irritation of the eyes:

No sufficient product-related data available; contact with dust can cause mechanical irritation and injury.

Isocure GTP 1 Part 1 (resin) causes acute eye irritation/corrosivity.

Isocure GTP 2/1 Part 2 (binder) causes severe irritation to eyes.

Sensitisation:

In case of contact with the skin: No sufficient, product-related, classification-relevant data available.

In case of inhalation: No sufficient, product-related, classification-relevant data available.

Isocure GTP 2/1 Part 2 (binder): May cause sensitisation in susceptible persons by skin contact or inhalation of aerosols or dust.

Safety data sheet

according to Regulation (EC) No. 1907/2006 and (EU) 2020/878

Trade name: Cores CB
Revised on: 27/06/2023
Print date: 27/06/2023

Version: DE 3.0
Replaces version DE 2.1



Aspiration hazard:

In case of inhalation: No sufficient, product-related, classification-relevant data available.

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

No sufficient, product-related, classification-relevant data available.

Isocure GTP 2/1 Part 2 (binder) may cause lung damage with prolonged or repeated inhalation.

Specific target organ toxicity (STOT) at repeated exposure:

No sufficient, product-related, classification-relevant data available.

CMR effects (carcinogenic, mutagenic and toxic for reproduction):

Silicon dioxide (alveolar fraction):

Carcinogenicity: Carcinogen, category 1; carcinogenic and contributing to cancer risk

Isocure GTP 1 Part 1 (resin)

Germ cell mutagenicity: Mutagenic, category 2; substance with increased mutation rate in offspring of exposed mammals

Isocure GTP 2/1 Part 2 (binder)

Carcinogenicity: Carcinogen, category 2; Determined from epidemiology data to be carcinogenic and contributing to cancer risk.

Formaldehyde:

Carcinogenicity: Carcinogenic: Category 4; substance with carcinogenic effect where genotoxic effects play no or only a minor role

Germ cell mutagenicity: Mutagenic, category 5; very low contribution to genetic risk

Phenol:

Carcinogenicity: Carcinogenic, category 3; substance data provide evidence of a carcinogenic effect

Germ cell mutagenicity: Mutagenic; category 3B; suspected mutagenic effect in in vivo germ cells

No sufficient, product-related, classification-relevant data available.

11.3 Experiences from practice

Classification relevant observations: No data available regarding product handling.

Other observations: No data available regarding product handling.

11.4 Information on other hazards / endocrinology:

Observations, information, data on health effects which may be caused by endocrine-disrupting properties are not available with regard to the use of the product.

12. Environment-related information:

12.1 Ecotoxicity:

Aquatic toxicity	Effective dose	Exposure duration	Species	Method	Valuation	Remark
No sufficient, product-related, classification-relevant data available.						

n/a = no information

12.2 Mobility:

Known or expected distribution to environmental compartments:

No surface tension or adsorption/desorption data available.

Safety data sheet

according to Regulation (EC) No. 1907/2006 and (EU) 2020/878

Trade name: Cores CB
Revised on: 27/06/2023
Print date: 27/06/2023

Version: DE 3.0
Replaces version DE 2.1



12.3 Bio-accumulative potential:

Due to the inert character of the product (material) (composed of inorganic substances), no data are available on the bio-accumulation potential, nor on the individual substances.

12.4 Persistence and degradability:

No sufficient, product-related data available (inorganic product, not affected by degradation)

12.5 Result of the determination of the PBT properties:

The PBT properties of the substances used were not determined.

12.6 Endocrine disrupting effects on the environment:

No adverse effects known.

12.7 Other harmful effects:

No other adverse effects known.

13. Notes on disposal

13.1 Disposal / waste (product):

Unused product:

Contact manufacturer regarding recycling. Check the possibility of recycling.

Otherwise disposal according to the Closed Substance Cycle Waste Management Act (KrWG): hazardous waste according to § 3 Waste Catalogue Ordinance (AVV).

Consumed product:

Only dispose of completely reacted and cooled product.

Disposal in accordance with the Closed Substance Cycle Waste Management Act (KrWG).

13.2 EAK / AVV waste code:

Suggested list for waste codes/waste designations according to AVV:

Unused product:

10 10 05* casting moulds and sands containing dangerous substances before casting

10 10 06 casting moulds and sand before casting other than those mentioned in 10 10 05*

Consumed product:

10 10 07* casting moulds and sands containing dangerous substances after casting

10 10 08 foundry moulds and sand after casting other than those mentioned in 10 10 07*

13.3 Packaging:

Non-contaminated and empty packaging can be recycled.

14. Transport information

14.1 Transport hazard classes:

Land transport (ADR (RID)):

Official designation: Not classified for this mode of transport. Hazard label:

Class:

UN number:

Classification code:

Packing group:

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Trade name: Cores CB
Revised on: 27/06/2023
Print date: 27/06/2023

Version: DE 3.0
Replaces version DE 2.1



Water transport (ADN(R) / IMDG-code):

Official designation: Not classified for this mode of transport. Hazard label:
Class: UN number:
Classification code: Packing group:
EmS: Marine Pollutant:
IMDG Code: Product is not transported in bulk.

Air transport (ICAO-TI / IATA-DGR):

Official designation: Not classified for this mode of transport. Hazard label:
Class: UN number:
Classification code: Packing group:

14.2 Special precautions for the user:

No special precautions required for transport or movement within or outside the premises.

15. Legislation

15.1 EU Regulations

Chemical safety assessment:

For individual substances in this product, risk assessments were carried out and registration dossiers prepared:
- Registration dossiers on silica by the European Chemicals Agency (ECHA).

Labelling:

Hazard symbols and hazard designation:

Hazard-determining components for labelling:	n/a, as not subject to compulsory labelling
H-statements:	n/a, as not subject to compulsory labelling
P-statements:	n/a, as not subject to compulsory labelling
Special labelling of certain products:	n/a, as not subject to compulsory labelling

Approval and / or restrictions on use:

Approvals:

No information.

Usage restrictions:

No information.

15.2 National regulations (Germany)

Notes on employment restrictions:

The respective national regulations for the protection of young people at work and the protection of expectant mothers must be observed.

Major Accident Ordinance (12th Federal Immission Control Ordinance (BImSchV)):

As a product, it is not subject to the 12. BImSchV

Water hazard class:

1 hazardous to water (self-classification according to VwVwS not applicable, as it is a product)

Technical Instructions Air (TA-Luft):

The respective emission limit values must be observed:

Ammonia: 30 mg/m³
Nitrogen oxides: 350 mg/m³ (as nitrogen dioxide)
Total dust, including fine dust: 20 mg/m³
Carbon monoxide: 150 mg/m³
Formaldehyde: 20 mg/m³
Hydrogen cyanide: 3 mg/m³
Phenol: 50 mg/m³ (as ammonia)
Cyanide: 1 mg/m³ (as CN)

Other regulations, restrictions and prohibition ordinances:

TRGS 900 limit values in the air at the workplace; DFG

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16. Other information

16.1 Wording of the H and P statements:

Full text of the H- and P-phrases of the individual components of the product (material) mentioned in chapter 3 as well as abbreviations of the labels of the individual substances mentioned in chapter 2:

Hazard warnings:

H302:	Harmful if swallowed
H314:	Causes severe skin burns and eye damage
H315:	Causes skin irritation
H317:	May cause an allergic skin reaction
H319:	Causes severe eye irritation
H332:	Hazardous to health when inhaled
H334:	May cause allergy, asthma-like symptoms or breathing difficulties if inhaled
H335:	May irritate the respiratory tract
H341:	May presumably cause genetic defects
H351:	May presumably cause cancer
H373:	May cause damage to organs through prolonged or repeated exposure

EU204	Contains isocyanates. May cause allergic reactions.
EU208	Contains: Formaldehyde. May cause allergic reactions.

Safety instructions:

Prevention:

P201	Obtain special instructions before use
P260	Do not inhale dust, smoke, gas, mist, vapour, aerosol
P270	Do not eat, drink or smoke after use
P280	Wear protective gloves, clothing, eye protection, face protection
P284	Wear respiratory protection

Reaction:

P301+330+331	If swallowed: Rinse out mouth. Do not induce vomiting
P303+361+353	In case of contact with skin (or hair): Remove all soiled, soaked clothing immediately. Wash skin with water, shower.
P304+340	In case of inhalation: Remove to fresh air and immobilise in a position that facilitates breathing.
P305+351+338	In case of contact with the eyes: Rinse gently with water for a few minutes. Remove any contact lenses if possible. Continue rinsing.
P310	Call a POISON CENTRE or doctor immediately
P312	If you feel unwell, call a poison centre or doctor
P314	If you feel unwell, seek medical advice
P362+364	Remove contaminated clothing and wash before reuse

16.2 Training notes:

The employees are to be regularly instructed in accordance with the legal requirements about the scope and the associated hazard.

16.3 Recommended restriction of use:

No private application.

16.4 Further information:

The information in this safety data sheet corresponds to the best of our knowledge at the time of printing. The information is intended to provide points of reference for the safe handling of the product named in this safety data sheet for storage, processing, transport and disposal. The information cannot be transferred to other products. Insofar as the product specified in this safety data sheet is blended, mixed or processed with other materials, or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise.

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16.5 Data sources:

- 1.) Current material safety data sheets
- 2.) IFA-DGUV-Gestis Substance Database, Institute for Occupational Safety and Health of the German Social Accident Insurance
- 3.) RIGOLETTO database "Catalogue of substances hazardous to water" Federal Environment Agency (UBA); revision: 11/04/2023
- 4.) TA Air 2021
- 5.) TRGS 900 Technical Rules for Hazardous Substances - Occupational Exposure Limits; revision: 23/06/2022
- 5.) DFG (German Research Foundation) - MAK- und BAT-Werte-Liste, Mitteilungen 58, Wiley-VCH, 2022
- 7.) ECHA/EU - REACH Registration Dossier Silicon Dioxide, dated 27/5/2018
- 8.) TRGS 509 Technical Rules for Hazardous Substances - Storage of Liquid and Solid Hazardous Substances in Stationary Containers; dated: 20/07/2022
- 9.) TRGS 510 Technical Rules for Hazardous Substances - Storage of hazardous substances in portable containers; revision: 16/02/2021
- 10.) DGUV I209-095 Dust containing quartz in the foundry industry; dated: 03-2023