

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: HEUCODUR Blue 4G

Article-No.: 1022132

Revision Date: 18.06.2025

Replaces version from: 05.06.2025

Version: 6.4/en

Print date: 03.03.2026



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

1.1 Product identifier

Commercial Product Name **HEUCODUR Blue 4G**

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

Relevant identified uses Pigment ; Industrial uses, Professional use

1.3 Details of the supplier of the safety data sheet

Company designation Sudarshan Langelsheim PLT GmbH
Heubachstrasse 7
D-38685 Langelsheim
Telephone: +49(0)5326-52-0
FAX: +49(0)5326-52-213
Email: -
Internet: www.heubach.com



Harold Scholz & Co. GmbH
Ickerotweg 30
45665 Recklinghausen, Germany
+49 2361 9888-0
produksicherheit@harold-scholz.de

Responsible Department Email: DL-DELH.Product-Safety@heubach.com

1.4 Emergency telephone number

Germany CHEMTREC international: +1 703-741-5970
Giftinformationszentrum-Nord: Telefon: +49(0)551-19240 (Deutsch/Englisch)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 This product is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] The product does not have to be labelled according to Regulation (EC) No. 1272/2008 [CLP].

Further information EUH210: Safety data sheet available on request.

2.3 Other hazards

Article 59(1) - endocrine disrupting properties The substance/mixture does not contain any constituents that are classified as hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more endocrine disrupting properties.

Particular information pertaining specific risk for human / environment No risks worthy of mention.

Results of PBT and vPvB assessment The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical characterization C.I. Pigment Blue 36
cobalt chromite blue green spinel

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CAS number 68187-11-1
EU number 269-072-0
REACH registration number 01-2119963939-14-0001
Contains:
Substance with a common (EC) occupational exposure limit value.:
chromium (III) oxide

* Information on ingredients

Ingredient	Numbers	Classification (EC) 1272/2008	Concentration
Chrom (III) oxid	CAS No.: 1308-38-9 EC-No.: 215-160-9 REACH No.: 01-2119433951-39	This product is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].	1.0 - 2.5 % by weight

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice Get medical advice/attention if you feel unwell.
If inhaled If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Get medical advice/attention if you feel unwell.
In case of skin contact Gently wash with plenty of soap and water.
In case of eye contact Rinse immediately carefully and thoroughly with eye-bath or water.
If eye irritation persists: Get medical advice/attention.
If swallowed Rinse mouth thoroughly with water.
When in doubt or if symptoms are observed, get medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical attention Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Extinguishing powder
Water spray jet
In case of major fire and large quantities:
Water spray jet, alcohol resistant foam
Extinguishing media which must not be used for safety reasons Carbon dioxide

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.
Avoid breathing dust/fume/gas/mist/vapours/spray.

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5.3 Advice for firefighters

Special protective equipment for fire-fighting In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Wear personal protection equipment (refer to section 8).
Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2 Environmental precautions

Environmental precautions Do not allow to enter into surface water or drains.
If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up Wet clean or vacuum up solids.
Collect in closed and suitable containers for disposal.
Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4 Reference to other sections

Reference to other sections Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Wear suitable protective clothing.
If the formation of dust is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used.
Wear eye glasses with side protection according to EN 166.
When using do not eat or drink.

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container requirements Keep only in the original container.
Store in a well-ventilated place. Keep container tightly closed.
TRGS 510 Storage class 13

7.3 Specific end use(s)

Specific use(s) No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chrom (III) oxid

Germany					
Value / mg/m ³	Ceiling Limit Value	Note	Remarks	Issuing date	Source
2	1(l)	Inhalable fraction	European Union. * 1)	05/18	TRGS 900

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* 1): The workplace limit value refers to the element content of the corresponding metal.

Europe		
Long-term exposure value/ mg/m ³	Issuing date	Source
2	2006/15	DIRECTIVE 2009/161/EU

dust

Germany				
Value / mg/m ³	Remarks	Issuing date	Ceiling Limit Value	Source
1,25	AGS; alveolar fraction	02/14		TRGS 900
10	AGS; Inhalable fraction	02/14	2(II)	TRGS 900

8.2 Exposure controls

Respiratory protection	If the formation of dust is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used.
Hand protection	By short-term hand contact: Hand protection is not required By long-term hand contact: Wear suitable gloves.
Suitable material	NBR (Nitrile rubber), Leather
Eye protection	Wear eye glasses with side protection according to EN 166.
General protective and hygiene measures	Provide adequate ventilation as well as local exhaust at critical locations.
Consumer exposure controls	See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	solid
Form	Powder
Colour	blue
Odour	characteristic
Odour threshold	not determined
Melting point [°C] / Freezing point [°C]	not determined
Boiling point [°C]	not applicable
Boiling range [°C]	not applicable
Flammability	not determined
Explosion limits [Vol-%]	
Lower limit	not applicable
Upper limit	not applicable
Flash point [°C]	not determined
Autoignition temperature [°C]	not self-igniting
Decomposition temperature [°C]	not determined
pH	

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Temperature [°C]	20 °C
Concentration	100 g/L in aqueous solution 7 - 9
Viscosity, kinematic [mm ² /s]	not applicable
Viscosity, dynamic [kg/(m s)]	not applicable
Water solubility [g/l]	<0,1
Partition coefficient n-octanol /water (log P O/W)	not determined
Vapour pressure [kPa]	not applicable
Density [g/cm ³]	4,7
Relative density	not determined
Relative vapour density (air=1)	not applicable
particle properties	not determined

9.2 Other information

SECTION 10: Stability and reactivity

10.1 Reactivity

Reactivity No information available.

10.2 Chemical stability

Chemical stability Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

10.3 Possibility of hazardous reactions

Hazardous reactions No hazardous reactions when stored and handled according to instructions.

10.4 Conditions to avoid

Conditions to avoid No information available.

10.5 Incompatible materials

Materials to avoid No information available.

10.6 Hazardous decomposition products

Hazardous decomposition products No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological information

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

Oral toxicity [mg/kg] The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.

Dermal toxicity [mg/kg] The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.

Inhalative toxicity [mg/l] >5,05

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Test criterion	LC50:
Test species	Rat
Note	cobalt chromite blue green spinel
Exposure duration [h]	4h
Irritant effect on skin	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Irritant effect on eyes	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Irritant effect on the respiratory tract	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Sensitization	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Mutagenicity	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Carcinogenic effects	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Reproduction toxicity	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Specific target organ toxicity (single exposure) [mg/kg]	
Remarks	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Specific target organ toxicity (repeated exposure) [mg/kg]	
Remarks	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
Aspiration hazard	Not applicable

11.2 Information about other hazards

Endocrine disrupting properties	The substance/mixture does not contain any constituents that are classified as hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more endocrine disrupting properties.
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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity [mg/l]	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
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12.2 Persistence and degradability

Biodegradability	No information available.
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12.3 Bioaccumulative potential

Bioaccumulation	The product has not been tested. Applying the calculation method available data of the ingredients do not result in classification of the product.
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12.4 Mobility in soil

Mobility

Mobility No information available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

Harmful effects on the environment Der Stoff/dieses Gemisch enthält keine Bestandteile, die gemäß REACH Artikel 57(f) oder der delegierten Verordnung (EU) 2017/2100 der Kommission oder der delegierten Verordnung (EU) 2018/605 der Kommission in Mengen von 0,1 % oder mehr endokrinschädliche Eigenschaften aufweisen.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal considerations Send to a hazardous waste incinerator facility under observation of official regulations.
Check for possible recycling.

Waste Code 08 01 12 waste paint and varnish other than those mentioned in 08 01 11

Uncleaned empty packaging Contaminated packages must be completely emptied and can be re-used following proper cleaning.
Packing which cannot be properly cleaned must be disposed of.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	Not applicable.	Not applicable.	Not applicable.
14.2 Description of the goods	Kein Gefahrgut nach ADR	Kein Gefahrgut nach IMDG	Kein Gefahrgut nach IATA
14.3 Transport hazard class(es)	Not applicable.	Not applicable.	Not applicable.
14.4 Packaging group	Not applicable.	Not applicable.	Not applicable.
14.5 Environmental hazards	Not applicable.	Not applicable.	Not applicable.
UN proper shipping name	Kein Gefahrgut nach ADR	Non dangerous good	Non dangerous good

14.6 Special precautions for user

Precautions No special measures are necessary.

14.7 Bulk transport by sea according to IMO instruments

Transport in bulk according to Annex II of MARPOL and the IBC Code not applicable

SECTION 15: Regulatory information

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

Additional regulations No information available.

Water Hazard Class (Ger.) non-hazardous to water (nwg)

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References to substance in ordinances, regulations and information sheets

REACH ANNEX XVII - RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

Entry 75

15.2 Chemical safety assessment

Safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

cobalt chromite blue green spinel

Nevertheless no Exposure scenarios have been derived, since the substance is not classified as hazardous.

SECTION 16: Other information

Modifications since last version

Modifications of the previous version are denoted with an asterisk (*).

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

PP: Severe Marine Pollutant

P: Marine Pollutant

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

VCI: Verband der chemischen Industrie, Deutschland (German chemical industry association)

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)

VOC: Volatile Organic Compounds (USA, EU)

ISO: International Organization for Standardization

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Relevant H-phrases

EUH210: Safety data sheet available on request.

Wording of the hazard classes

This product is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.