

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 9 Nov 2021

Print date: 9 Nov 2021

Version: 1.1

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Calcined Anthracite

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

1.1 Product identifier

Trade name/designation:

Calcined Anthracite

CAS No.:

68187-59-7

EC No.:

269-111-1

Additional information:

The substance does not require registration according to Regulation (EC) No 1907/2006 [REACH].

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

Use of the substance/mixture:

Raw material for electrode paste, ramming paste, carburizer.
For use in industrial installations only.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Rheinfelden Carbon Products GmbH

Bukheinstr. 2
79618 Rheinfelden
GERMANY

Telephone: +49 7623 93 211

Telefax: +49 7623 93 548

E-mail: msds@rheinfelden-carbon.eu

Website: <http://www.rheinfelden-carbon.eu>

E-mail (competent person): msds@rheinfelden-carbon.eu

1.4 Emergency phone number

24h: +49 7623 93 375

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

According to EC directives or the corresponding national regulations the product does not have to be labelled.

2.3 Other hazards

Adverse physicochemical effects:

This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment). Warning! Danger of dust explosion.

Adverse human health effects and symptoms:

If dust is generated: May cause eye irritation. May cause respiratory irritation.

SECTION 3: Composition / information on ingredients

3.1 Substances

Additional information:

The product does not contain substances of very high concern (SVHC) $\geq 0,1$ %.

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Ingredients:

Product identifiers	Substance name Classification according to Regulation (EC) No. 1272/2008 [CLP]	Content
CAS No.: 68187-59-7 EC No.: 269-111-1	Coal, anthracite, calcined The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	100 weight-%

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

Rinse skin with water/shower. In case of skin irritation, consult a physician.

After eye contact:

Do not subject to friction. Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

Following ingestion:

If swallowed, rinse mouth with water (only if the person is conscious). Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

No known symptoms to date. If dust is generated: May cause eye irritation. May cause respiratory irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, alcohol resistant foam, extinguishing powder, carbon dioxide (CO₂).

5.2 Special hazards arising from the substance or mixture

This material is combustible, but will not ignite readily. If dust is generated: Warning! Danger of dust explosion.

Hazardous combustion products:

In case of fire may be liberated: carbon oxides (CO_x). Possible in traces: sulphur oxides (SO_x), Nitrogen oxides (NO_x).

5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

5.4 Additional information

Use water spray to keep fire-exposed containers cool.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Personal precautions:

Avoid dust formation. Do not breathe dust.

Protective equipment:

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Wear eye/face protection.

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6.1.2 For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2 Environmental precautions

No special environmental measures are necessary.

6.3 Methods and material for containment and cleaning up

For containment:

Measures to prevent aerosol and dust generation: Dust suppressant. Do not use a dry brush as dust clouds or static can be created.

For cleaning up:

Collect spillage. Suitable material for taking up: Water (with cleaning agent)

Other information:

Take up mechanically, placing in appropriate containers for disposal.

6.4 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

Protective measures

Advices on safe handling:

Avoid dust formation. Do not breathe dust. Wear personal protection equipment (refer to section 8).

Fire prevent measures:

Take precautionary measures against static discharges. Remove all sources of ignition.

Measures to prevent aerosol and dust generation:

Dust should be exhausted directly at the point of origin. Use the following filter types for cleaning waste gases: High efficiency particulate air filter (HEPA filter).

Advices on general occupational hygiene

When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Store dry. Keep container tightly closed.

Hints on storage assembly:

Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

Recommendation:

Raw material for electrode paste, ramming paste, carburizer.

Observe technical data sheet.

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SECTION 8: Exposure controls / Personal protection

8.1 Control parameters

8.1.1 Occupational exposure limit values

Limit value type (country)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
WEL (GB)	Dust, respirable fraction	① 4 mg/m ³ ⑤ (Dust limit value, respirable fraction)
WEL (GB)	Dust, inhalable fraction	① 10 mg/m ³ ⑤ (Dust limit value, inhalable fraction)

8.1.2 Biological limit values

No data available.

8.1.3 DNEL-/PNEC-values

No data available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. Measures to prevent aerosol and dust generation: Provide adequate ventilation as well as local exhaust at critical locations. Recommendation: If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

8.2.2 Personal protection equipment



Eye/face protection:

Recommendation: Eye glasses with side protection (EN 166)

Skin protection:

Hand protection is not required.

Respiratory protection:

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Particle filter device (EN 143). Filter type P1. Observe the wear time limits as specified by the manufacturer.

Other protection measures:

Wear suitable protective clothing.

8.2.3 Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: solid, granulate

Colour: black

Odour: odourless

Safety relevant basic data

Parameter		at	Method	Remark
pH	<i>not applicable</i>			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			

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Parameter		at	Method	Remark
Decomposition temperature	<i>not applicable</i>			
Flash point	> 700 °C		DIN ISO 2592	
Evaporation rate	<i>not applicable</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not applicable</i>			
Vapour density	<i>not applicable</i>			
Density	1.79 g/cm ³	20 °C		
Bulk density	<i>not determined</i>			
Water solubility	insoluble	20 °C		
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not applicable</i>			
Kinematic viscosity	<i>not applicable</i>			

9.2 Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment).

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.
Generation/formation of dust: Warning! Danger of dust explosion.

10.4 Conditions to avoid

Protect from moisture.

10.5 Incompatible materials

Oxidising agent, Acids, alkali (lye), Water

10.6 Hazardous decomposition products

In case of fire may be liberated: carbon oxides (CO_x). Possible in traces: sulphur oxides (SO_x), Nitrogen oxides (NO_x).

Further information

No data available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity:

Based on available data, the classification criteria are not met.

Acute dermal toxicity:

Based on available data, the classification criteria are not met.

Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

Serious eye damage/irritation:

Based on available data, the classification criteria are not met.
May cause eye irritation.

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Respiratory or skin sensitisation:

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.

Reproductive toxicity:

Based on available data, the classification criteria are not met.

STOT-single exposure:

Based on available data, the classification criteria are not met.

May cause respiratory irritation.

STOT-repeated exposure:

Based on available data, the classification criteria are not met.

Aspiration hazard:

Based on available data, the classification criteria are not met.

Additional information:

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
68187-59-7	Coal, anthracite, calcined	not applicable	

Biodegradation:

According to experiences this product is inert and not degradable.

12.3 Bioaccumulative potential

Accumulation / Evaluation:

No indication of bioaccumulation potential.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
68187-59-7	Coal, anthracite, calcined	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

May be reused without remediation.

13.1.1 Product/Packaging disposal

Waste codes/waste designations according to EWC

Waste code product:

Remark:

The allocation of waste code numbers / waste names must be carried out in accordance with the European Waste Catalogue (EWC).

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Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. For recycling, contact manufacturer.

Appropriate disposal / Package:

Completely emptied packages can be recycled.

13.2 Additional information

Collect in closed and suitable containers for disposal.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI-/IATA-DGR)
14.1 UN-No.			
-	-	-	-
14.2 UN proper shipping name			
Not restricted	Not restricted	Not restricted	Not restricted
14.3 Transport hazard class(es)			
No data available.			
14.4 Packing group			
No data available.			
14.5 Environmental hazards			
No data available.			
14.6 Special precautions for user			
No data available.			

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

not relevant

Additional information:

No data available.

SECTION 15: Regulatory information

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

15.1.1 EU legislation

Authorisations:

No data available.

Restrictions on use:

No data available.

Other EU regulations:

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

15.1.2 National regulations

No data available.

15.2 Chemical Safety Assessment

No data available.

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SECTION 16: Other information

16.1 Indication of changes

Changes executed in version 1.1:

Section 1: Manufacturer/Supplier

Section 15: Water hazard class (Germany)

General revision

16.2 Abbreviations and acronyms

See overview table at www.euphrac.eu.

16.3 Key literature references and sources for data

European Chemicals Agency (ECHA): <http://www.echa.europa.eu>

ECHA, C&L Inventory: <http://echa.europa.eu/information-on-chemicals/cl-inventory-database>

ECHA, Registered substances: <http://echa.europa.eu/information-on-chemicals/registered-substances>

GESTIS (Gefahrstoffinformationssystem der DGUV): <http://www.dguv.de/ifa/GESTIS/index.jsp>

Hörath Gefährliche Stoffe und Gemische, 8. Auflage, Dr. Angela Schulz

Safety data sheets of the manufacturers

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No. 1272/2008 [CLP]

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

16.5 Relevant H- and EUH-phrases

No data available.

16.6 Training advice

No data available.

16.7 Additional information

The information in this safety data sheet has been established to our best knowledge and was up-to-date at time of revision. The information is intended to give you advice about the safe handling of the product for storage, processing, transport and disposal. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.