

# Safety data sheet

(Sicherheitsdatenblatt)

Version 3.1 / 2021-11-10



RMC Remacon GmbH  
Hugo-Herrmann-Str. 15  
79713 Bad Säckingen

## Natural graphite GNP

(Naturgraphit GNP)

### 1. Identification and supplier information

Trade name	Natural Graphite - Type GNP
REACH status	Excluded from Reach according to annex V 7
REACH register number	Excluded from Reach according to annex V 7
Manufacturer / Supplier	RMC Remacon GmbH Anton-Leo-Str. 2 79713 Bad Säckingen, Germany
Telephone	+49 (0) 7761 / 939 93-0
Emergency number	+49 (0) 7761 / 939 93-0
E-Mail	info@rmc-remacon.de
Normal use of the product	Raw material for further processing

### 2. Hazards Identification

#### Particular information pertaining specific risk for human and environment

This product does not meet the criteria for classification as hazardous as defined in the Regulation EC 1272/2008 (CLPH/GHS) and in Directives 67/548/EWG and 1999/45/EG. No H-phrases, no R-phrases.

#### Label elements:

Labelling according the Regulation (EG) Nr. 1272/2008	Not applicable
Hazard pictograms	Not applicable
Catchword	Not applicable
Hazards	No known significant effects or critical hazards

Although the product is not classified as hazardous, we recommend that you observe the safety precautions.

### 3. Composition / Information on components

#### Chemical characterization

CAS-Nr.	999999-99-4 (natural occurring substance)
EINECS-Nr.	310-127-6
REACH No.	Not available
Content %	Approx. 100
GHS Classific	Not classified as dangerous

Natural graphite is excluded from REACH according to Annex V 7.

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#### Bankverbindung:

Volksbank Rhein-Wehra  
IBAN: DE32 6849 0000 0000 2827 07  
BIC: GENODE61BSK



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## 4. First aid

<b>General</b>	In all cases of doubt or symptoms look for medical attendance.
<b>Inhalation</b>	In case of inhalation carry the affected person to fresh air. In case of any symptoms look for medical attendance.
<b>Skin contact</b>	No impact known.
<b>Ingestion</b>	Any impact in case of ingestion cannot be excluded. In case of symptoms look for medical attendance.
<b>Eye contact</b>	Flush eyes with eye-flush equipment or look for medical attendance.

### Instructions for medical staff

<b>Symptoms</b>	Inhalation of dust may cause coughing, headaches, dizziness and breathing problems.
<b>Risks</b>	Non applicable (n.a.)
<b>Medication</b>	Non applicable (n.a.)

## 5. Fire protection

<b>Extinguishing devices</b>	<u>Small fire:</u> Water haze, extinguishing powder or CO <sup>2</sup> <u>Large fire:</u> Foam, sand, carefully water haze. Do not use direct jet of water.
<b>Special hazards from the substance</b>	Appearance of CO and CO <sub>2</sub> during Fire. Use inhalation protection.
<b>Protective equipment</b>	Inhalation protection, protective clothing.
<b>Fire class according to DIN EN 2</b>	A

## 6. Accident and fire measures

<b>Precautionary measures</b>	Inhalation protection in case of dust formation. Be aware that natural graphite can cause very slithery floors an surfaces.
<b>Protection of environment</b>	Non applicable (n.a.)
<b>Cleaning methods</b>	No special techniques applicable. Be aware that natural graphite can cause very slithery floors an surfaces.

## 7. Storage and handling

<b>Handling</b>	Inhalation protection in case of dust formation. Be aware that natural graphite can cause very slithery floors an surfaces.
<b>Storage</b>	Dry storage is recommended. No contact to incompatible materials (oxidizing agents, fluorine, halogenated solvents, potassium oxide)
<b>Storage classification (LGK) according to TRGS 510 concept for cumulative storage of chemicals</b>	11

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<b>Requirements to be met by storerooms and receptacles</b>	Storage in gateways, passages, stairways, hallways open to public, roofs, attics and workrooms is not admissible. Don't use foods receptacles because of danger of confusion. Clearly and durably label receptacles. Preferable store in original receptacles, keep densely closed.
<b>Information on cumulative storage</b>	Storage classification 11 (flammable solids). Nothing but substances of similar properties should be cumulatively stored. Cumulative storage with substances as follows is prohibited: <ul style="list-style-type: none"><li>• medicinal products, food and feedings stuff including additives</li><li>• Highly oxidising substances</li><li>• flammable substances, e.g. paper, carton, wood, plastic foils</li><li>• infective, radioactive and explosive substances</li></ul> Cumulative storage for the following substances is allowed under certain conditions <ul style="list-style-type: none"><li>• compressed, liquefied and pressurised dissolved gases</li><li>• auto-igniting substances</li><li>• substances releasing flammable gases on contact with water</li><li>• oxidising substances</li><li>• organic peroxides and self-decomposing substances</li><li>• flammable and non-flammable acute toxic substances</li><li>• other explosive substances</li><li>• ammonium nitrate and preparations containing ammonium nitrate</li><li>• flammable liquid substances</li></ul> The substance should not be cumulatively stored with substances where dangerous chemical reactions are Possible.

## 8. Limitations of exposition - safety devices

### Limitation of pollution

Concentration of dust during work should be controlled according to local directions (MAK values).

### Technical measures

Provide adequate ventilation.

<b>Respiration requirements</b>	When exceeding MAK-values use dust-mask filter P1.
<b>Skin protection</b>	PVC gloves with impervious boots, apron or overalls. Employees should wash their hands and face before eating, drinking or using tobacco products.
<b>Eye protection</b>	During extreme pollution safety glasses or goggles.
<b>Hand protection</b>	Not necessary. Workers with dry skin can use a grease paste.

## 9. Physical and chemical properties

### General data

<b>Form</b>	Powder
<b>Color</b>	Grey to black
<b>Odor</b>	Odorless

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## Relevant safety data

	Value	Note
pH-Value	Ca. 7 (neutral)	
Melting point		Non applicable (n.a.)
Minimal Ignition temperature (MIT)		Only glowing
Minimal ignition energy (MIE)		Non applicable (n.a.)
Glowing temperature (GT)	600°C	
Lowest temperature of a hot surface on which ignition occurs in a 5 mm thick layer of dust.	> 450°C	only glowing
Lower explosion limit (LEL)		Not determined
Upper explosion limit (UEL)		Not determined
Lower limit of the range of the concentration of dust in air, at which the dust/air mixture can be caused to explode.	Non applicable (n.a.)	Probability of ignition of dust-air mixtures is due to a very high minimum ignition temperature very low.
Maximum explosion pressure (Pmax)	Non applicable (n.a.)	
The maximum pressure value occurring during the explosion of a dust/air mixture of optimum concentration.	Non applicable (n.a.)	
Maximum value of the maximum pressure rise from different dust concentrations (dP/dtmax)	Non applicable (n.a.)	
The speed of the explosive reaction	Non applicable (n.a.)	
Maximum pressure rise speed (KSt)	Non applicable (n.a.)	

## 10. Stability and reactivity

Conditions to avoid	Stable under recommended storage and handling conditions (see section 7)
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## 11. Toxicological information

Small quantities of suspended material injected in the anterior chamber of rabbits are mainly absorbed by leukocytes and cornea –endothelial cells but without proof of inflammable reactions. Suspension in physiological saline solution and installation in bronchia/trachea of rats resulted in accumulations in low lung area showing discoloration but without notice of macroscopic damaging effects. The low dosing group showed slightly inflammable effects reforming within 14 days.

### Acute toxicity

Parameter	Value	Species	Method	Remarks
LD50 oral	>2.000 mg/kg	Rat	OECD 401	----
LD50 inhalativ	>2.000 mg/m <sup>3</sup> 4h	Rat	OECD 403	----

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## Corrosive and irritative effects

Parameter	Value	Species	Method	Remarks
Skin	No irritation	Rabbit	OECD 404	----
Eye	No irritation	Rabbit	OECD 405	----

## Sensibilisation

No sensibilizing mice during local lymph nodes test (OECD 429).

## Subacute to chronic toxicity:

Parameter	Value	Species	Method	Remarks
NOAEL oral	813 mg/kg	Rat	OECD 422	----
NOAEC inhalat.	>2.000 mg/m <sup>3</sup> 4h	Rat	OECD 412	----

NOAEL: No Observed Adverse Effect Level

NOAEC: No Observed Adverse Effect Concentration

## Mutagenicity

Parameter	Value	Species	Method	Remarks
Bacterial reverse mutation assay	Negative	Salmonella typhimurium T98/100/1535/1537	OECD 473	With/without metabolic activation of rat liver S9
Chromosome aberration test	Negative	Lung fibroblast Chinese hamster	OECD 473	With/without metabolic activation of rat liver S9

## 12. Information on ecological effects

General information	
	Crystalline graphite is chemically inert and does not contaminate environment. No defectiveness in biologic filter plants and waters. No danger for water according to §19g clause 5 data 2 WHG (VwVwS dtd May 17 <sup>th</sup> 1999 (Banz.. dtd. May 29 <sup>th</sup> 1999 No. 98a)

Crustacean toxicity		Method
LC50 fish toxicity	>100 mg/l 96h	OECD 203
EC50 Crustacean toxicity	>100 mg/l 48h	OECD 202
IC50 Algae toxicity	>100 mg/l 72h	OECD 201

## 13. Disposal information

Disposal information	
	Product can be disposed as innocuous in accordance with existing federal, state and local environment regulations.

## 14. Angaben zum Transport

The product does not constitute a hazardous substance in national/international road, rail, sea and air transport. (Also in accordance with REACH regulation)

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## 15. Regulatory information

<b>Danger symbol and danger designation</b>	All included materials are innocuous minerals, therefore marking is not necessary.
<b>Risk-phrases</b>	None
<b>Safety-phrases</b>	None

## 16. International Listing

TSCA (USA)	listed	graphite
DSL/NDSL (Canada)	listed	DSL - graphite
KECI/ECL (Korea)	listed	KE-18101
PICCS (Philippines)	listed	C.I. pigment black 10
MITI/ENCS/CSCL (Japan)	listed	ENCS-No. of component
IECSC / NEPA/SEPA (China)	listed	Reported to NEPA inventory
AICS (Australia)	listed	graphite
ERMA (New Zealand)	listed	
NzIoC (New Zealand)	listed	approved, not subject to the provisions
TCSI/ECSI (Taiwan)	listed	
SZW lijst (Niederlande)	not listed	van krankverwekkende stoffen
	not listed	van mutagenen stoffen

## 17. Other information

This document is based on our best current knowledge and is intended to provide information on specific properties of our products and their applications. The above data have been obtained under laboratory conditions according to the described test methods. Therefore, this information shall not be taken as guaranteeing specific properties, or the suitability of the product for a specific application under working conditions unknown to us. Particularly, the specific data shall not be taken as a warranty for the lifetime or performance in the given application. The members of RMC Remacon GmbH does not assume any liability with respect thereto.

Diese Angaben entsprechen unserem heutigen Kenntnisstand und sollen über typische Eigenschaften und Anwendungen unserer Produkte informieren. Die oben angegebenen Werte wurden unter Laborbedingungen gemäß den aufgeführten Prüfverfahren ermittelt. Daher sind diese Angaben nicht als Garantie bestimmter Eigenschaftswerte oder der Eignung des Produkts für spezielle Anwendungen unter uns nicht bekannten Arbeitsbedingungen zu werten. Die spezifischen Daten stellen insbesondere keine Garantie zur Lebensdauer oder zur Leistung in einer konkreten Anwendung dar. Die RMC Remacon GmbH kann diesbezüglich keine Haftung übernehmen.

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