

## SAFETY DATA SHEET

prepared in accordance with Annex II of the REACH Regulation EC 1907/2006, Regulation (EC) 1272/2008, Regulation (EC) 453/2010 and Regulation (EC) 830/2015.

Version 4.0

Revision Date 01.06.2017  
Date of first issue 24.07.2012

Print Date 18.02.2019

<b>SECTION 1: Identification of the substance/mixture and of the company/undertaking</b>	
<b>1.1. Product identifier</b>	
<b>Product name</b>	<b>Akdolit® Hydro-Anthrasit N</b>
Synonyms	Carbon anthracite, Natural anthracite
<b>Trade name</b>	<b>Anthrac./Hydro-Anth. N 0,6/1,6mm-bag</b>
Chemical name - Formula	Carbon - C
CAS-No.	8029-10-5
Molecular weight	12,01 g/mol
REACH Registration Number	This substance is exempt from registration according to Regulation (EC) No. 1907/2006 (REACH).
<b>1.2. Relevant identified uses of the substance or mixture and uses advised against</b>	
Find hereunder a general description of uses.	
Filter material	
There are no uses advised against.	
<b>1.3. Details of the supplier of the safety data sheet</b>	
Company	<b>Rheinkalk GmbH</b>
Address	Am Kalkstein 1 42489 Wülfrath Germany
Telephone	+492058170
Telefax	+492058172210
E-mail of competent person responsible for SDS in the MS or in the EU:	msds@rheinkalk.de
<b>1.4. Emergency telephone number</b>	
Emergency telephone number (Europe)	<b>112</b> <b><i>This telephone number is available 24 hours per day, 7 days per week.</i></b>
Poison Information Centre telephone number	+ 32 70 245 245 for Belgium
Emergency telephone number (Company)	<b>+49 2058 17 0</b> <b><i>This telephone number is available 24 hours per day, 7 days per week.</i></b>

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### Further information

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2. Label elements

#### Hazard pictograms

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### Signal word

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### Hazard statements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### Precautionary statements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

### 2.3. Other hazards

May form explosive dust-air mixture.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Chemical name	CAS-No.	EC-No.	REACH No.	Index-No.	Weight percent
Carbon	8029-10-5		—	—	90

Degree of purity (%): No impurities relevant for classification and labelling, Natural product

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

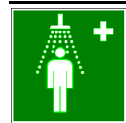
#### General advice

Show this safety data sheet to the doctor in attendance.

#### Inhalation

Remove to fresh air.

#### Skin contact



Wash off immediately with plenty of water. Get medical attention if irritation develops and persists.

#### Eye contact



Rinse thoroughly with plenty of water, also under the eyelids. Consult a physician.

Ingestion	Drink plenty of water. Consult a physician.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	
Skin contact may provoke the following symptoms: irritant effects At high concentrations product causes severe inflammation of conjunctiva and cornea.	
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	
Follow the advice given in section 4.1.	
<b>SECTION 5: Firefighting measures</b>	
<b>5.1. Extinguishing media</b>	
Suitable extinguishing media	Dry powder Foam Carbon dioxide (CO <sub>2</sub> )
Unsuitable extinguishing media	High volume water jet
<b>5.2. Special hazards arising from the substance or mixture</b>	
Heating up for more than 600 °C could lead to decomposing into carbon monoxide (CO) and carbon dioxide (CO <sub>2</sub> ).	
<b>5.3. Advice for firefighters</b>	
Wear self-contained breathing apparatus and protective suit.	
<b>SECTION 6: Accidental release measures</b>	
<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>6.1.1. Advice for non-emergency personnel</b>	Keep away from heat and sources of ignition.
<b>6.1.2. Advice for emergency responders</b>	See section 6.1.1
<b>6.2. Environmental precautions</b>	
No special environmental precautions required.	
<b>6.3. Methods and materials for containment and cleaning up</b>	
Pick up the product mechanically. Dilute with plenty of water.	
<b>6.4. Reference to other sections</b>	
For more information on exposure controls/personal protection or disposal considerations, please check section 8 and 13.	

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

<b>7.1.1. Protective measures</b>	Store substance within a closed system.
<b>7.1.2. Advice on general occupational hygiene</b>	Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep away from children. All ventilation systems should be filtered before discharge to atmosphere.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage temperature must not exceed 80°C. Silo must allow hermetical closure. Avoid ignition sources. Use only approved equipment in the defined explosion protection zones. Silo components have to be earthed and connected conductively.

### 7.3. Specific end use(s)

none

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit

Chemical name	Form	Limit value	Legal basis
Carbon	No data available	No data available	Arrêté royal du 19 mai 2009, MONITEUR BELGE - 11.06.2009, p. 41413

#### Derived No Effect Level

##### Workers

Chemical name	Exposure routes	Acute local effects	Acute systemic effects	Long-term local effects	Long-term systemic effects
Carbon	Oral	Not required	Not required	Not required	Not required
	Inhalation	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

##### Consumers

Chemical name	Exposure routes	Acute local effects	Acute systemic effects	Long-term local effects	Long-term systemic effects
Carbon	Oral	No data available	No data available	No data available	No data available
	Inhalation	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

#### Predicted No Effect Concentration

Chemical name	Environmental protection target							
	Fresh water	Fresh water sediment	Marine water	Marine sediment	Food chain	Microorganisms in sewage treatment	Soil	Air
Carbon	No data available	No data available	No data available	No data available	No data available	No data available	No data available	No data available

### 8.2. Exposure controls

To control potential exposures, generation of dust should be avoided. Further, appropriate

protective equipment is recommended. Eye protection equipment (e.g. goggles or visors) must be worn, unless potential contact with the eye can be excluded by the nature and type of application (i.e. closed process). Additionally, face protection, protective clothing and safety shoes are required to be worn as appropriate.

#### 8.2.1. Appropriate engineering controls

Handling systems should preferably be enclosed or suitable ventilation installed to maintain atmospheric dust below the OES, if not wear suitable protective equipment.

#### 8.2.2. Individual protection measures, such as personal protective equipment

##### 8.2.2.1. Eye/face protection



Safety goggles

##### 8.2.2.2. Skin protection



Nitrile rubber  
Use protective skin cream before handling the product.

##### 8.2.2.3. Respiratory protection



Effective dust mask  
P1 filter

##### 8.2.2.4. Thermal hazards

Keep away from fire, sparks and heated surfaces.

#### 8.2.3. Environmental exposure controls

All ventilation systems should be filtered before discharge to atmosphere.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance:	Colour: black Form: granular
Odour:	odourless
Odour Threshold:	Not applicable
pH:	alkaline
Melting point:	No data available
Boiling point:	Not applicable
Flash point:	Combustible material
Evaporation rate:	Not applicable
Flammability:	The product is not flammable. lower flammability limit: No data available Upper flammability limit: No data available
Explosive properties:	Not explosive <u>Upper/Lower explosion limit</u> lower: No data available upper: No data available
Vapour pressure:	Not applicable
Vapour density:	Not applicable

Relative density:	1,35 - 1,6 g/cm <sup>3</sup>
Bulk density	650 - 800 kg/m <sup>3</sup>
Solubility(ies):	insoluble
Partition coefficient: n-octanol/water:	Not applicable
Auto-ignition temperature:	760 °C;
Decomposition temperature:	No data available
Viscosity, kinematic:	Not applicable
Oxidizing properties:	No oxidising properties. (Based on the chemical structure, the substance does not contain a surplus of oxygen or any structural groups known to be correlated with a tendency to react exothermally with combustible material).

## 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Heating up for more than 600 °C could lead to decomposing into carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>).

### 10.4. Conditions to avoid

Exposure to air.

### 10.5. Incompatible materials

Strong oxidizing agents

### 10.6. Hazardous decomposition products

Carbon oxides

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Not toxic

#### Skin corrosion/irritation

Causes mild skin irritation.

#### Serious eye damage/eye irritation

At high concentrations product causes severe inflammation of conjunctiva and cornea.

### Respiratory or skin sensitisation

Does not cause skin sensitisation.

### Germ cell mutagenicity

Contains no ingredient listed as a mutagen

### Carcinogenicity

Not classifiable as a human carcinogen.

### Reproductive toxicity

No effects on fertility

Based on Human Evidence

### STOT - single exposure

No data available

### STOT - repeated exposure

Inhalation of dust causes discomfort to the upper respiratory tract. Irritant to the respiratory tract in high concentration of dust.

### Aspiration hazard

The product is not known to present an aspiration hazard.

## SECTION 12: Ecological information

### 12.1. Toxicity

12.1.1. Toxicity to fish	Not applicable
12.1.2. Toxicity to aquatic invertebrates	Not applicable
12.1.3. Toxicity to aquatic plants	Not applicable
12.1.4. Toxicity to microorganisms / Toxicity to bacteria	Not applicable
12.1.5. Toxicity to daphnia and other aquatic invertebrates	Not applicable
12.1.6. Toxicity to soil dwelling organisms	Not applicable
12.1.7. Toxicity to terrestrial plants	Not applicable
12.1.8. Other effects	Natural product
12.1.9. Other information	Not applicable

### 12.2. Persistence and degradability

Not applicable

### 12.3. Bioaccumulative potential

Not applicable

<b>12.4. Mobility in soil</b>
Not applicable
<b>12.5. Results of PBT and vPvB assessment</b>
The substance does not meet the criteria for PBT or vPvB substance.
<b>12.6. Other adverse effects</b>
No other adverse effects are identified.
<b>SECTION 13: Disposal considerations</b>
<b>13.1. Waste treatment methods</b>
<p>Reuse or recycle whenever possible.          If the reuse or recycling is not possible, disposal must be made according to local and national regulation.          Processing, use or contamination of this product may change the waste management options.          Waste classification code must be determined at the point of waste generation.          Dispose of container and unused contents in accordance with applicable member state and local requirements.          The used packaging is only meant for packing this product; it should not be reused for other purposes.</p>
<b>SECTION 14: Transport information</b>
The product is not classified as hazardous for transport (ADR (Road), RID (Rail), IMDG / GGVSea (Sea)).
<b>14.1. UN number</b>
not regulated



<b>14.2. UN proper shipping name</b>	
not regulated	
<b>14.3. Transport hazard class(es)</b>	
<b>14.4. Packing group</b>	
<b>14.5. Environmental hazards</b>	
None	
<b>14.6. Special precautions for user</b>	
Avoid any release of dust during transportation, by using air-tight tanks.	
<b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	
not regulated	
<b>SECTION 15: Regulatory information</b>	
<b>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
Authorisations	Not required
Restrictions on use	None
Other regulations (European Union)	The product is not a SEVESO substance, not an ozone depleting substance and not a persistent organic pollutant.
National regulatory information	German legislation on water endangering substances VwVwS not water endangering (nwg)
<b>15.2. Chemical safety assessment</b>	
A Chemical Safety Assessment is not required for this substance.	
<b>SECTION 16: Other information</b>	
Data are based on our latest knowledge but do not constitute a guarantee for any specific product features and do not establish a legally valid contractual relationship.	
<b>16.1. Hazard statements</b>	
	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
<b>16.2. Precautionary statements</b>	
	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
<b>16.3. Abbreviations</b>	
	DNEL: Derived no effect level EC50: median effective concentration

	LC50: median lethal concentration LD50: median lethal dose NOEC: no observable effect concentration OEL: occupational exposure limit PBT: persistent, bioaccumulative, toxic chemical PNEC: predicted no-effect concentration SDS: Safety data sheet STEL: short-term exposure limit STOT: specific target organ toxicity TWA: time weighted average vPvB: very persistent, very bioaccumulative chemical
<b>16.4. Literary reference</b>	
Data sheet prepared in accordance with: Annex II of the REACH Regulation (EC) 1907/2006. References: 1.Council Directive 90/269/EEC 2.Booklet L64 - Safety Signs and Signals. The Health and Safety (Safety Signs and Signals) Regulations 1996 - Guidance on Regulations (HSE) - ISBN 978 0 7176 6359 0 3. <a href="http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances">http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances</a> 4.The Merck Index (Ed. Merck & Co, Rahway, USA)	
<b>16.5. Additions, Deletions, Revisions</b>	
Changes since the last version are highlighted in the margin. This version replaces all previous versions.	
<b>Disclaimer</b>	
This safety data sheet (SDS) is based on the legal provisions of the REACH Regulation (EC 1907/2006; article 31 and Annex II), as amended. Its contents are intended as a guide to the appropriate precautionary handling of the material. It is the responsibility of recipients of this SDS to ensure that the information contained therein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. Information and instructions provided in this SDS are based on the current state of scientific and technical knowledge at the date of issue indicated. It should not be construed as any guarantee of technical performance, suitability for particular applications, and does not establish a legally valid contractual relationship. This version of the SDS supersedes all previous versions.	

**End of Safety Data Sheet**