

## Activated charcoal

05120-1KG

Version 1.2

Revision Date 14.07.2022

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

#### 1.1. Product identifier

Product name : Activated charcoal  
SDS-number : 000000020413  
Type of product : Substance  
Remarks : Document according to Art. 32 of Regulation (EC) 1907/2006.  
Chemical name : Activated carbon  
CAS-No. : 7440-44-0  
REACH Registration Number : no data available

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

Use of the Substance/Mixture : Laboratory chemicals  
Uses advised against : none

#### 1.3. Details of the supplier of the safety data sheet

Company	: Honeywell International Inc. 115 Tabor Road 07950-2546 Morris Plains USA	Honeywell International, Inc. 115 Tabor Road Morris Plains, NJ 07950-2546 USA
---------	---	--

Telephone :  
For further information, please contact: : [SafetyDataSheet@Honeywell.com](mailto:SafetyDataSheet@Honeywell.com)

#### 1.4. Emergency telephone number

Emergency telephone number : +1-703-527-3887 (ChemTrec-Transport)  
+1-303-389-1414 (Medical)  
Country based Poison : see chapter 15.1

## Activated charcoal

05120-1KG

Version 1.2

Revision Date 14.07.2022

Control Center

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### REGULATION (EC) No 1272/2008

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

#### 2.2. Label elements

##### REGULATION (EC) No 1272/2008

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

#### 2.3. Other hazards

Activated carbon may lower oxygen content in the surrounding air, which can cause rapid suffocation in an enclosed or confined space. Ventilate space and check for sufficient oxygen content before entering. Repeated or prolonged exposure may irritate eyes, skin and respiratory system. Results of PBT and vPvB assessment, see chapter 12.5.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
Activated carbon	7440-44-0 231-153-3		100 %	N.C.*

N.C.\* - Non-hazardous substance - for information only

#### 3.2. Mixture

Not applicable

## Activated charcoal

05120-1KG

Version 1.2

Revision Date 14.07.2022

---

Occupational Exposure Limit(s), if available, are listed in Section 8.  
For the full text of the H-Statements mentioned in this Section, see Section 16.

---

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

*General advice:*

First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

*Inhalation:*

Remove to fresh air. If respiratory problems develop, obtain medical attention.

*Skin contact:*

Wash off with soap and plenty of water. If skin irritation persists, call a physician.

*Eye contact:*

Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a physician.

*Ingestion:*

Do NOT induce vomiting. Drink at least 2 glasses of water. Never give anything by mouth to an unconscious person. Consult a physician.

#### 4.2. Most important symptoms and effects, both acute and delayed

No data available

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

See Section 11 for more detailed information on health effects and symptoms.

## Activated charcoal

05120-1KG

Version 1.2

Revision Date 14.07.2022

---

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

*Suitable extinguishing media:*

Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder

*Extinguishing media which shall not be used for safety reasons:*

Do not use a solid water stream as it may scatter and spread fire.

#### 5.2. Special hazards arising from the substance or mixture

Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Dust may form explosive mixture in air.

#### 5.3. Advice for firefighters

In the case of respirable dust and/or fumes, use self-contained breathing apparatus.

---

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid dust formation. Wear appropriate personal protective equipment.

#### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

#### 6.3. Methods and materials for containment and cleaning up

Moisten spilled product with water to minimize dust.  
Take up mechanically and collect in suitable container for disposal.  
Pick up and arrange disposal without creating dust.  
Never return spills in original containers for re-use.  
Dispose of in accordance with local regulations.

## Activated charcoal

05120-1KG

Version 1.2

Revision Date 14.07.2022

---

### 6.4. Reference to other sections

For personal protection see section 8.

---

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

*Advice on safe handling:*

Handle and open container with care. Avoid dust formation. Avoid contact with skin and eyes. Provide exhaust ventilation if dust is formed.

*Advice on protection against fire and explosion:*

May form explosive mixtures in presence of oxidizing substances (gas/dust).

*Hygiene measures:*

General industrial hygiene practice.

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

*Further information on storage conditions:*

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep only in the original container at temperature not exceeding 50°C

*Advice on common storage:*

Keep away from oxidizing agents and strongly acid or alkaline materials.

### 7.3. Specific end use(s)

no additional data available

## Activated charcoal

05120-1KG

Version 1.2

Revision Date 14.07.2022

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### *Occupational exposure limits:*

Components	Basis / Value type	Value / Form of exposure	Exceeding Factor	Remarks
Activated carbon	EH40 WEL TWA	4 mg/m <sup>3</sup> Respirable dust.		
Activated carbon	EH40 WEL TWA	10 mg/m <sup>3</sup> Inhalable dust.		

TWA - Time weighted average

##### **DNEL/ PNEC-Values**

Component	End-use/impact	Exposure duration	Value	Exposure routes	Remarks
Activated carbon	Workers / Long-term local effects		1,43 mg/m <sup>3</sup>	Inhalation	
Activated carbon	Consumers / Long-term local effects		0,9 mg/m <sup>3</sup>	Inhalation	

Component	Environmental compartment / Value	Remarks
Activated carbon	Soil: 10 mg/kg dw	

#### 8.2. Exposure controls

##### **Occupational exposure controls**

Handle in accordance with good industrial hygiene and safety practice.

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140,

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Honeywell**  
**Fluka™**

## Activated charcoal

05120-1KG

Version 1.2

Revision Date 14.07.2022

149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.

### Engineering measures

Ensure adequate ventilation, especially in confined areas.

Activated carbon may lower oxygen content in the surrounding air, which can cause rapid suffocation in an enclosed or confined space. Ventilate space and check for sufficient oxygen content before entering.

### Personal protective equipment

#### *Respiratory protection:*

In the case of dust or aerosol formation use respirator with an approved filter.

Disposable filtering half mask Class FFP1 (EN149).

Half mask with a particle filter P1 (EN143).

#### *Hand protection:*

Glove material: Natural Latex

Break through time: > 480 min

Glove thickness: 0,6 mm

Lapren®706

Gloves must be inspected prior to use.

Replace when worn.

Remarks:Supplementary note: The specifications are based on information and tests from similar substances by analogy.

Due to varying conditions ( e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer recommends to use the chemical protective glove in practice not longer than 50% of the recommended permeation time.

Manufacturer's directions for use should be observed because of great diversity of types .

Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

#### *Eye protection:*

Safety glasses with side-shields

#### *Skin and body protection:*

Lightweight protective clothing

## Activated charcoal

05120-1KG

Version 1.2

Revision Date 14.07.2022

### Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

## SECTION 9: Physical and chemical properties

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

Physical state	: solid
Colour	: black
Odour	: odourless
molecular weight	: 12,01 g/mol
Melting point/freezing point	: Not applicable
Boiling point/boiling range	: Not applicable
Flammability	: Not applicable
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: >240 °C
Decomposition temperature	: No decomposition if used as directed.
pH	: 6 - 9 suspension
Viscosity, kinematic	: No data available
Water solubility	: insoluble
Partition coefficient: n-octanol/water	: No data available



## Activated charcoal

05120-1KG

Version 1.2

Revision Date 14.07.2022

---

Vapour pressure : Not applicable  
Density : No data available  
Bulk density : ca. 350 kg/m<sup>3</sup>  
Relative vapour density : No data available

### 9.2 Other Information

Oxidizing properties : The substance or mixture is not classified as oxidizing.  
Evaporation rate : No data available  
Viscosity, dynamic : No data available

---

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

No decomposition if used as directed.

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to avoid

Keep away from heat and sources of ignition.  
Avoid dust formation and electrical charging (sparking) because dust explosion might occur.

### 10.5. Incompatible materials

Strong acids and oxidizing agents

## Activated charcoal

05120-1KG

Version 1.2

Revision Date 14.07.2022

alkaline materials

### 10.6. Hazardous decomposition products

Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

*Acute oral toxicity:*

LD50

Species: Rat

Sex: female

Value: > 2.000 mg/kg

Method: OECD 423

*Acute dermal toxicity:*

No data available

*Acute inhalation toxicity:*

LC50

Species: Rat

Value: > 8,5 mg/l

Exposure time: 1 h

Method: OECD Test Guideline 403

*Skin irritation:*

Species: Rabbit

Result: No skin irritation

Method: OECD Test Guideline 404

*Eye irritation:*

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

*Respiratory or skin sensitisation:*

Species: Mouse

Result: non-sensitizing

Method: OECD Test Guideline 429

## Activated charcoal

05120-1KG

Version 1.2

Revision Date 14.07.2022

---

*Repeated dose toxicity:*  
Note: No data available

*Carcinogenicity:*  
Species: not specified  
Note: No data available  
*Germ cell mutagenicity:*  
Note: No data available

*Reproductive toxicity:*  
Species: not specified  
Remarks: No data available

*Aspiration hazard:*  
No data available

### 11.2. Information on other hazards

Endocrine disrupting properties  
No data available

*Other information:*  
No data available

---

## SECTION 12: Ecological information

### 12.1. Toxicity

*Toxicity to fish:*  
No data available

*Toxicity to aquatic plants:*  
No data available

*Toxicity to aquatic invertebrates:*  
No data available

### 12.2. Persistence and degradability

*Biodegradability:*  
No data available

## Activated charcoal

05120-1KG

Version 1.2

Revision Date 14.07.2022

---

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

No data available

### 12.6. Endocrine disrupting properties

No data available

### 12.7. Other adverse effects

No data available

---

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

*Product:*

Dispose according to legal requirements.

*Packaging:*

Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

*Further information:*

Provisions relating to waste:  
EC Directive 2006/12/EC; 2008/98/EEC  
Regulation No. 1013/2006

For personal protection see section 8.

---

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID:Not dangerous goods    IMDG:Not dangerous goods    IATA:Not dangerous goods

### 14.2 UN proper shipping name

ADR/RID:Not dangerous goods

## Activated charcoal

05120-1KG

Version 1.2

Revision Date 14.07.2022

IMDG: Not dangerous goods  
IATA: Not dangerous goods

### 14.3 Transport hazard class(es)

### 14.4 Packaging group

### 14.5 Environmental hazards

ADR/RID: no Marine pollutant: no

### 14.6 Special precautions for user

All grades of powdered activated carbon are steam activated and are not regulated for domestic or international transportation.

### 14.7 Maritime transport in bulk according to IMO instruments

No data available

## SECTION 15: Regulatory information

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

Basis	Value	Remarks
Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of $\geq 0.1\%$ (w/w).
Directive 2012/18/EC SEVESO III		Not applicable

### Poison Control Center

Country	Phone Number
Austria	+4314064343
Belgium	070 245245

Country	Phone Number
Liechtenstein	+41 442515151
Lithuania	+370532362052

## Activated charcoal

05120-1KG

Version 1.2

Revision Date 14.07.2022

Bulgaria	(+359)29154233
Croatia	(+385)23-48-342
Cyprus	+357 2240 5611
Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390
Finland	9471977
France	+33(0)145425959
Greece	+30 210 779 3777
Hungary	(+36-80)201-199
Iceland	5432222
Ireland	+353(1)8092166
Italy	0382 24444
Germany	Berlin : 030/19240
	Bonn : 0228/19240
	Erfurt : 0361/730730
	Freiburg : 0761/19240
	Göttingen : 0551/19240
	Homburg : 06841/19240
	Mainz : 06131/19240
Munich : 089/19240	
Latvia	+37167042473

Luxembourg	070245245; (+352)80002-5500
Malta	+356 2395 2000
Netherlands	030-2748888
Norway	22591300
Poland	+48 42 25 38 400
Portugal	800250250
Romania	+40 21 318 3606
Slovakia (NTIC)	+421 2 54 774 166
Slovenia	+386 1 400 6051
Spain	+34915620420
Sweden	112 (begär Gifftinformation);+46104566786
Switzerland	145
United Kingdom	(+44) 844 892 0111

### Other inventory information

US. Toxic Substances Control Act  
On TSCA Inventory

Australia. Industrial Chemicals Act (AIIC), as amended  
On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)  
All components of this product are on the Canadian DSL

## Activated charcoal

05120-1KG

Version 1.2

Revision Date 14.07.2022

---

Japan. Kashin-Hou Law List

On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI)

On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS)

On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC)

On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand

On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI)

On the inventory, or in compliance with the inventory

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

---

## SECTION 16: Other information

### Further information

All directives and regulations refer to amended versions.

Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations:

EC European Community

CAS Chemical Abstracts Service

DNEL Derived no effect level

PNEC Predicted no effect level

vPvB Very persistent and very bioaccumulative substance

PBT Persistent, bioaccumulative und toxic substance

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a

**Activated charcoal**

05120-1KG

Version 1.2

Revision Date 14.07.2022

---

guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.

This information should not constitute a guarantee for any specific product properties.

---