

Activated charcoal**05120-5KG**

Version 1.1

Revision Date 12/10/2021

Print Date 05/29/2023

SECTION 1. IDENTIFICATION

Product name : Activated charcoal

Number : 000000020413

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell Specialty Chemicals Seelze GmbH
Wunstorfer Straße 40
Seelze, 30926

For more information call : 1-800-368-0050
+1-231-726-3171(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or**
: **+1-703-527-3887**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : powder

Color : black

Odor : odourless

Classification of the substance or mixture

Classification of the substance or mixture : Combustible dust

GHS Label elements, including precautionary statements

Signal word : Warning

Activated charcoal**05120-5KG**

Version 1.1

Revision Date 12/10/2021

Print Date 05/29/2023

Hazard statements : May form combustible dust concentrations in air.

Precautionary statements : **Prevention:**
Use personal protective equipment as required.

Hazards not otherwise classified : Repeated or prolonged exposure may irritate eyes, skin and respiratory system.
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.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Carbon	7440-44-0	100.00 %

SECTION 4. 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,

Activated charcoal**05120-5KG**

Version 1.1

Revision Date 12/10/2021

Print Date 05/29/2023

- 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.

Notes to physician

- Most important symptoms/effects, acute and delayed : No information available.
- Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO₂)
Dry powder
- Specific hazards during firefighting : Avoid dust formation in confined areas.
Airborne dusts of this product in an enclosed space and in the presence of an ignition source may constitute an explosion hazard.
Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.
Static charges on powders or powders in liquids may ignite combustible atmospheres.
Hazardous decomposition products formed under fire conditions.
- Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Activated charcoal**05120-5KG**

Version 1.1

Revision Date 12/10/2021

Print Date 05/29/2023

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | | |
|---|---|--|
| Personal precautions,
protective equipment and
emergency procedures | : | Wear personal protective equipment.
Evacuate personnel to safe areas.
Provide adequate ventilation.
May form explosive dust-air mixture.
Avoid dust formation.
Accumulations of dust from this product in the workplace may increase the likelihood or severity of an explosion.
Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.
Eliminate all ignition sources if safe to do so. |
| Environmental precautions | : | Prevent further leakage or spillage if safe to do so.
Prevent product from entering drains. |
| Methods and materials for
containment and cleaning
up | : | Avoid dust formation and electrical charging (sparking) because dust explosion might occur.
Do not create a powder cloud by using a brush or compressed air.
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).
Use only non-sparking tools. |

SECTION 7. HANDLING AND STORAGE**Handling**

- | | | |
|----------------------------------|---|--|
| Precautions for safe
handling | : | Wear personal protective equipment.
Avoid dust formation.
Floors, walls and other surfaces must be regularly cleaned.
The material can accumulate static charge and can therefore cause electrical ignition.
Static charges on powders or powders in liquids may ignite combustible atmospheres.
Take precautionary measures against static discharges. |
| Advice on protection against | : | All combustible solids have the potential to create a dust |

Activated charcoal**05120-5KG**

Version 1.1

Revision Date 12/10/2021

Print Date 05/29/2023

fire and explosion

explosion hazard. The likelihood of an explosion can be dependent upon many factors, such as the explosive characteristics of the material, the design of the facility, and the manner in which the material is handled. A more detailed discussion can be found in NFPA Bulletin 654, "Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids."

Storage

Conditions for safe storage, including any incompatibilities : Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.

Advice on common storage : Keep away from oxidizing agents and strongly acid or alkaline materials.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.
Avoid breathing dust.

Engineering measures : Provide exhaust ventilation if dust is formed.
Use only in an area equipped with explosion proof exhaust ventilation.
Electrical equipment should be protected to the appropriate standard.
If formation of dust is observed, equipment has to be switched off, cleaned and serviced.

Eye protection : Safety glasses with side-shields

Hand protection : Latex gloves
Gloves must be inspected prior to use.
Replace when worn.

Skin and body protection : Protective suit

Activated charcoal

05120-5KG

Version 1.1

Revision Date 12/10/2021

Print Date 05/29/2023

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Hygiene measures : Take off all contaminated clothing immediately.
Remove and wash contaminated clothing before re-use.
Keep working clothes separately.
Wash hands before breaks and at the end of workday.
When using, do not eat, drink or smoke.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Carbon	7440-44-0	TWA : Time weighted average	2 mg/m3	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Further information	:	Form of exposure : Respirable fraction.			

Carbon	7440-44-0	TWA : Time weighted average	10 mg/m3	03 2014	ACGIH:US. ACGIH Threshold Limit Values, as amended
Further information	:	Form of exposure : Inhalable particles.			

Carbon	7440-44-0	TWA : Time weighted average	3 mg/m3	03 2014	ACGIH:US. ACGIH Threshold Limit Values, as amended
Further information	:	Form of exposure : Respirable particles.			

Carbon	7440-44-0	REL : Recommended exposure limit (REL):	2.5 mg/m3	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Further information	:	Form of exposure : Respirable.			

SAFETY DATA SHEET

**Activated charcoal****05120-5KG**

Version 1.1

Revision Date 12/10/2021

Print Date 05/29/2023

Carbon	7440-44-0	PEL : Permissible exposure limit	15 mg/m3	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
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Further information	:	Form of exposure : Total dust.
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Carbon	7440-44-0	PEL : Permissible exposure limit	15 mg/m3	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
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Further information	:	Form of exposure : Total dust.
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Carbon	7440-44-0	PEL : Permissible exposure limit	5 mg/m3	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
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Further information	:	Form of exposure : Respirable fraction.
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Carbon	7440-44-0	PEL : Permissible exposure limit	5 mg/m3	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
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Further information	:	Form of exposure : Respirable fraction.
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SAFETY DATA SHEET

**Activated charcoal****05120-5KG**

Version 1.1

Revision Date 12/10/2021

Print Date 05/29/2023

Carbon	7440-44-0	TWA : Time weighted average	2.5 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
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Further information	:	Form of exposure : Respirable dust.			
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Carbon	7440-44-0	TWA : Time weighted average	5 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
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Further information	:	Form of exposure : Respirable fraction.			
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Carbon	7440-44-0	TWA : Time weighted average	10 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
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Further information	:	Form of exposure : Total dust.			
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Carbon	7440-44-0	TWA : Time weighted average	5 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
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Further information	:	Form of exposure : Respirable fraction.			
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Carbon	7440-44-0	TWA : Time weighted average	15 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
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Further information	:	Form of exposure : Total dust.			
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SAFETY DATA SHEET



Activated charcoal

05120-5KG

Version 1.1

Revision Date 12/10/2021

Print Date 05/29/2023

Carbon	7440-44-0	:	Listed	2000	Z3:US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
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Carbon	7440-44-0	:	Listed	2000	Z3:US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
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Further information	:	Form of exposure : Total dust.			
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Carbon	7440-44-0	:	Listed	2000	Z3:US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
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Further information	:	Form of exposure : Respirable fraction.			
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Carbon	7440-44-0	TWA : Time weighted average	15 millions of particles per cubic foot of air	2000	Z3:US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
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Carbon	7440-44-0	TWA : Time weighted average	15 millions of particles per cubic foot of air	2000	Z3:US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
--------	-----------	--------------------------------	--	------	--

Further information	:	Form of exposure : Respirable fraction.			
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Carbon	7440-44-0	TWA : Time weighted average	15 mg/m3	2000	Z3:US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
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Further information	:	Form of exposure : Total dust.			
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Activated charcoal**05120-5KG**

Version 1.1

Revision Date 12/10/2021

Print Date 05/29/2023

Carbon	7440-44-0	TWA : Time weighted average	5 mg/m3	2000	Z3:US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Further information	:	Form of exposure : Respirable fraction.			

Carbon	7440-44-0	TWA : Time weighted average	50 millions of particles per cubic foot of air	2000	Z3:US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Further information	:	Form of exposure : Total dust.			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: powder
Color	: black
Odor	: odourless
Odor threshold	: Note: No data available
pH	: 6 - 9 Note: suspension
Melting point/freezing point	: Note: Not applicable
Boiling point/boiling range	: Note: Not applicable
Flash point	: Note: Not applicable
Evaporation rate	: Note: No data available
Flammability	: May form combustible dust concentrations in air.

Activated charcoal**05120-5KG**

Version 1.1

Revision Date 12/10/2021

Print Date 05/29/2023

Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapor pressure	: Note: Not applicable
Vapor density	: Note: No data available
Density	: Note: No data available
Water solubility	: Note: insoluble
Partition coefficient: n-octanol/water	: Note: No data available
Ignition temperature	: > 240 °C
Decomposition temperature	: Note: No decomposition if used as directed.
Viscosity, dynamic	: Note: No data available
Viscosity, kinematic	: Note: No data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: 12.01 g/mol
Bulk density	: ca. 350 kg/m ³

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
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Activated charcoal**05120-5KG**

Version 1.1

Revision Date 12/10/2021

Print Date 05/29/2023

Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Conditions to avoid	: Keep away from heat and sources of ignition. Avoid dust formation and electrical charging (sparking) because dust explosion might occur.
Incompatible materials	: Strong acids and oxidizing agents Bases
Hazardous decomposition products	: Carbon dioxide (CO ₂) Carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50: > 2,000 mg/kg Species: Rat, female Method: OECD 423 Note: No deaths
Acute inhalation toxicity	: Note: No data available
Acute dermal toxicity	: Note: No data available
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

Activated charcoal**05120-5KG**

Version 1.1

Revision Date 12/10/2021

Print Date 05/29/2023

Sensitisation : Species: Mouse
Result: non-sensitizing
Method: OECD Test Guideline 429

Repeated dose toxicity : Note: No data available

Genotoxicity in vitro : Note: No data available

Carcinogenicity : Species: not specified
Note: No data available

Reproductive toxicity : Species: not specified
Note: No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish : Note: No data available

Toxicity to daphnia and other aquatic invertebrates : Note: No data available

Toxicity to algae : Note: No data available

Elimination information (persistence and degradability)

Biodegradability : Note: No data available

Further information on ecology**SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

Activated charcoal**05120-5KG**

Version 1.1

Revision Date 12/10/2021

Print Date 05/29/2023

SECTION 14. TRANSPORT INFORMATION**DOT** Not dangerous goods**TDG** Not dangerous goods**IATA** Not dangerous goods**IMDG** Not dangerous goods

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

SECTION 15. REGULATORY INFORMATION**Inventories**

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemicals Act (AIC), 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

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 : On the inventory, or in compliance with the inventory

Activated charcoal**05120-5KG**

Version 1.1

Revision Date 12/10/2021

Print Date 05/29/2023

(IECSC)

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

National regulatory information

SARA 302 Components : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards : Acute Health Hazard

California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts RTK : Carbon 7440-44-0

New Jersey RTK : Carbon 7440-44-0

Pennsylvania RTK : Carbon 7440-44-0

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 1	1
Flammability	: 1	1
Physical Hazard	: 0	
Instability	:	0

Activated charcoal**05120-5KG**

Version 1.1

Revision Date 12/10/2021

Print Date 05/29/2023

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

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 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.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group