

# **SAFETY DATA SHEET**

Version 6.4 Revision Date 08/24/2021 Print Date 06/04/2022

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

# **1.1 Product identifiers**

Product name	:	Activated charcoal
Product Number Brand CAS-No.	:	05105 Sigma-Aldrich 7440-44-0

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

Identified uses	:	Laboratory chemicals, Synthesis of substances
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# **1.3** Details of the supplier of the safety data sheet

Company		Sigma-Aldrich Inc. 3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES
Telephone Fax	-	+1 314 771-5765 +1 800 325-5052
Emergency telephone		

# 1.4 Emergency telephone

Emergency Phone #	: 800-424-9300 CHEMTREC (USA) +1-703-
	527-3887 CHEMTREC (International) 24
	Hours/day; 7 Days/week

# SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### 2.2 GHS Label elements, including precautionary statements

Pictogram	none
Signal word	Warning
Hazard statement(s)	May form combustible dust concentrations in air.
Precautionary statement(s)	none

#### **2.3 Hazards not otherwise classified (HNOC) or not covered by GHS** Combustible dust

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#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Synonyms

: Charcoal activated

E		<u> </u>
Formula	:	C
Molecular weight	:	12.01 g/mol
CAS-No.	:	7440-44-0
EC-No.	:	231-153-3

No components need to be disclosed according to the applicable regulations.

### **SECTION 4: First aid measures**

#### 4.1 Description of first-aid measures

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

Wash off with soap and plenty of water.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

- **4.2 Most important symptoms and effects, both acute and delayed** The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- **4.3 Indication of any immediate medical attention and special treatment needed** No data available

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

**Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- **5.2** Special hazards arising from the substance or mixture Carbon oxides Combustible.
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- **5.4 Further information** No data available

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#### **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures** Avoid dust formation. Avoid breathing vapors, mist or gas. For personal protection see section 8.
- **6.2 Environmental precautions** No special environmental precautions required.
- **6.3 Methods and materials for containment and cleaning up** Sweep up and shovel. Keep in suitable, closed containers for disposal.
- **6.4** Reference to other sections For disposal see section 13.

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

#### Advice on safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

### Advice on protection against fire and explosion

Provide appropriate exhaust ventilation at places where dust is formed.

### **Hygiene measures**

General industrial hygiene practice. For precautions see section 2.2.

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

#### Storage conditions

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

#### Storage class

Storage class (TRGS 510): 13: Non Combustible Solids

# 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

**Ingredients with workplace control parameters** Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

# Appropriate engineering controls

General industrial hygiene practice.

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#### Personal protective equipment

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### **Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Control of environmental exposure**

No special environmental precautions required.

#### **SECTION 9: Physical and chemical properties**

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

- a) Appearance Form: powder Color: black
- b) Odor No data available
- c) Odor Threshold No data available
- d) pH No data available

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	e)	Melting point/freezing point	Melting point/range: 3,550 °C (6,422 °F)
	f)	Initial boiling point and boiling range	No data available
	g)	Flash point	()No data available
	h)	Evaporation rate	No data available
	i)	Flammability (solid, gas)	May form combustible dust concentrations in air.
	j)	Upper/lower flammability or explosive limits	No data available
	k)	Vapor pressure	1 hPa at 25 °C (77 °F)
	I)	Vapor density	No data available
	m)	Density	1.8 - 2.1 g/cm3
		Relative density	No data available
	n)	Water solubility	insoluble
	o)	Partition coefficient: n-octanol/water	No data available
	p)	Autoignition temperature	No data available
	q)	Decomposition temperature	No data available
	r)	Viscosity	No data available
	s)	Explosive properties	No data available
	t)	Oxidizing properties	No data available
9.2	Oth	ner safety informatio	n

No data available

#### **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity** No data available

- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No data available
- **10.4 Conditions to avoid** No data available
- **10.5 Incompatible materials** Strong oxidizing agents
- **10.6 Hazardous decomposition products** In the event of fire: see section 5

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# SECTION 11: Toxicological information

### **11.1 Information on toxicological effects**

#### Acute toxicity

Oral: No data available Inhalation: No data available Dermal: No data available

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

**Respiratory or skin sensitization** No data available

Germ cell mutagenicity

No data available

#### Carcinogenicity

- IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

#### **Reproductive toxicity**

No data available

#### Specific target organ toxicity - single exposure No data available

**Specific target organ toxicity - repeated exposure** No data available

**Aspiration hazard** No data available

#### **11.2 Additional Information**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### **SECTION 12: Ecological information**

- **12.1 Toxicity** No data available
- 12.2 Persistence and degradability No data available
- **12.3 Bioaccumulative potential** No data available

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# 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

# **12.6 Other adverse effects**

No data available

### **SECTION 13: Disposal considerations**

#### **13.1 Waste treatment methods**

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

### **SECTION 14: Transport information**

#### DOT (US)

Not dangerous goods

# IMDG

Not dangerous goods

#### ΙΑΤΑ

Not dangerous goods

#### Further information

Not classified as dangerous in the meaning of transport regulations.

#### **SECTION 15: 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

No SARA Hazards

#### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

No components are subject to the Massachusetts Right to Know Act.

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Pennsylvania Right To Know Components Activated Carbon Not Transportation Regulated	CAS-No. 7440-44-0	Revision Date
Activated Carbon Not Transportation Regulated	CAS-No. 7440-44-0	Revision Date
New Jersey Right To Know Components Activated Carbon Not Transportation Regulated	CAS-No. 7440-44-0	Revision Date

### **SECTION 16: Other information**

#### **Further information**

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