

SAFETY DATA SHEET

Creation Date 03-May-2011

Revision Date 30-Mar-2024

Revision Number 3

1. Identification

Product Name

Carbon powder, activated

Cat No. : L11860

CAS No Synonyms

Recommended Use Uses advised against

Black Pearls; Charcoal Black; Graphite Nautural Laboratory chemicals. Food, drug, pesticide or biocidal product use.

7440-44-0

Details of the supplier of the safety data sheet

<u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Specific target organ toxicity - (repeated exposure) Target Organs - Lungs. Category 2

Label Elements

Signal Word Warning

Hazard Statements

May cause damage to organs through prolonged or repeated exposure



Precautionary Statements Prevention Do not breathe dust/fume/gas/mist/vapors/spray Wear protective gloves/protective clothing/eye protection/face protection Response Get medical attention/advice if you feel unwell Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %
Activated charcoal		7440-44-0	100
	4.	First-aid measures	
Eye Contact	Rinse immeo medical atter	liately with plenty of water, also under th ntion.	ne eyelids, for at least 15 minutes. Get
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.		
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If symptoms persist, call a physician.		
Ingestion	Drink plenty of water. Do NOT induce vomiting. Get medical attention if symptoms occur.		
Most important symptoms and effects	No information available.		
Notes to Physician	Treat symptomatically		

5. Fire-fighting measures

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	452 °C
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon oxides.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u> Health 1	Flammability 1	Instability 0	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions	Ensure adequate ventilation personal protective equipment		contact with skin and eyes. Use
Environmental Precautions	Should not be released into		
Methods for Containment and Up	Clean Sweep up and shovel into s adequate ventilation.	uitable containers for disposal	. Avoid dust formation. Provide
	7. Handling a	and storage	
Handling	Avoid contact with skin and breathing dust/fume/gas/mi		nsure adequate ventilation. Avoid
Storage.	Keep containers tightly clos Incompatible Materials. Stro	ed in a cool, well-ventilated pla ong oxidizing agents.	ace. Incompatible Materials.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH	Mexico OEL (TWA)
Activated charcoal				TWA: 2 mg/m ³

Engineering Measures	None under normal use conditions.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	No protective equipment is needed under normal use conditions.
Recommended Filter type:	Particle filter.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

	9. Physical and chemical properties
Physical State	Solid
Appearance	Black
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	3652 °C

Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

No information available No information available Not applicable No information available No data available No data available 1 mmHg @ 3586 °C Not applicable 1.8 - 2.1 Insoluble in water No data available 452 °C No information available Not applicable С 12

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10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Avoid dust formation. Protect from moisture. Excess heat.	
Incompatible Materials	Incompatible Materials, Strong oxidizing agents	
Hazardous Decomposition Products Carbon oxides		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity

Product Information

Component	:	LD50 Oral		LD50 Dermal	LC50	Inhalation
Activated charc	oal L	D50 > 10000 mg/kg(R	at)	Not listed	Nc	t listed
Toxicologically Syne Products	•	No information avai				
elayed and immedi	ate effects as v	vell as chronic effec	ts from short an	a long-term expo	<u>osure</u>	
rritation		May cause skin and	eye irritation			
Sensitization		No information avai	lable			
		.	iaataa waataa a	ah aganay haa lia	ted on vingradiant	
Carcinogenicity		The table below ind	icates whether ea	ach agency has lis	ated any ingredient a	as a carcinoge
Carcinogenicity Component	CAS No	I he table below ind	NTP	ACGIH	OSHA	as a carcinoge Mexico
Carcinogenicity Component Activated charcoal	CAS No 7440-44-0	· · · · · ·			, , ,	5
Component		IARC	NTP Not listed	ACGIH	OSHA	Mexico

Developmental Effects No information available.

Teratogenicity	No information available.
STOT - single exposure STOT - repeated exposure	None known Lungs
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.
	12. Ecological information
Ecotoxicity	

Persistence and Degradability	No information available
Bioaccumulation/ Accumulation	No information available.
Mobility	No information available.
	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a

Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a
·	hazardous waste. Chemical waste generators must also consult local, regional, and
	national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information					
DOT	Not regulated				
DOT TDG IATA	Not regulated				
IATA	Not regulated				
IMDG/IMO	Not regulated				
15. Regulatory information					

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Activated charcoal	7440-44-0	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL

Activated charcoal 7440-44-0 X - 231-153-3 X X X X X KE-04671	_										
		Activated charcoal	$(AA()_{AA_{-}})$	Х	-	1.7.31-16.3-31	Х	Х	Х	Х	

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Activated charcoal	-	-	-	-	Х

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland This product does not contain any DHS chemicals. Security

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Component		CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	0	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Activated charco	al	7440-44-0	-	Use restricted. See item 75. (see link for restriction details)	-

REACH links

https://echa.europa.eu/substances-restricted-under-reach

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

Compon	ent	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Activated ch	arcoal	7440-44-0	Listed	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Activated charcoal	7440-44-0	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com
Creation Date Revision Date Print Date Revision Summary	03-May-2011 30-Mar-2024 30-Mar-2024 New emergency telephone response service provider.

Disclaimer

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

End of SDS