

# Mommertz Wasser- und Wärmetechnik GmbH

## Material Safety Data Sheet -- Activated Carbon

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1.	<b>Identification of substances / preparation and company / undertaking</b>	
	<b>Trade Name</b>	<b>Neutrakon® Activated Carbon</b>
	<b>Company</b>	Mommertz Wasser und Wärmetechnik GmbH Daimlerstraße 8 D - 89312 Günzburg Phone: +49 / 8221 / 8238 Fax: +49 / 8221 / 38616
2.	<b>Composition / Information on ingredients</b>	
	<b>Chemical Characteristics:</b>	gas, steam-activated carbon
	<b>Chemical Formula:</b>	Carbon ( C )
	<b>Chemical identification:</b>	CAS-Nr.: 7440-44-0
	<b>%:</b>	100
3.	<b>Hazard identification</b>	
	<b>Identification of hazards:</b>	not applicable
	<b>Critical hazards to man and environment:</b>	not applicable
4.	<b>First aid measures</b>	
	<b>After breathing in:</b>	not applicable
	<b>After skin contact:</b>	purify with water and soap
	<b>After swallowing:</b>	not applicable
	<b>After eye contact:</b>	in case of eye contact rinse thoroughly with water at least 15min
5.	<b>Fire - fighting measures</b>	
	<b>Suitable extinguishing media:</b>	flood with water
	<b>Special danger from Material, inflammable products or gases:</b>	in case of fire burst carbon monoxide can emerge
6.	<b>Measures for unintentional release</b>	
	<b>Purification process:</b>	sweep up thoroughly released product and give to disposal in a suitable receptable. Release has to be reported according to regional and national regulations.
7.	<b>Accidental release measures</b>	
	<b>Personal precautions:</b>	not necessary
	<b>Environmental precautions:</b>	not necessary
	<b>Methods for cleaning up:</b>	take up mechanically
7.	<b>Handling and storage</b>	
	<b>Handling</b>	Avoid dust generation. Avoid eye and skin contact and inhaling coaldust.
	<b>Measurements to provide fire / explosion:</b>	the product is not combustible Store activated carbon in a dry and aired place, protected from dampness, gases and steam. Keep away from oxidants or heat, fire and ignition sources.
8.	<b>Exposure controls / personal protection</b>	
	<b>Exposure directive:</b>	<b>OSHA PEL<sup>1</sup></b> 5mg/m <sup>3</sup> inhalable <b>ACGIH TLV</b> 10mg/m <sup>3</sup> total
	<b>Personal protection</b>	<sup>1</sup> Occupational Safety and Health Administration - U.S. Department of Labour, Persona <sup>2</sup> American Conference of Governmental Industrial Hygienists Threshold Limit Values
	<b>Respiration protection:</b>	In well-aerated work areas on normal conditions not necessary. At excessive coaldust an approved particle filter is recommended.
	<b>Hand protection:</b>	Protective gloves are recommended.
	<b>Eye protection:</b>	Safety glasses are recommended.
	<b>Skin protection:</b>	Long-sleeved clothes are recommended.

9.	<b>Physical and chemical properties</b> <b>Appearance:</b> granules, pellets, powder <b>Colour:</b> black <b>Odor:</b> odorless <b>pH - Value</b> 8 - 10 <b>Melting point:</b> not applicable <b>Boiling point:</b> not applicable <b>Flash point:</b> not applicable <b>Ignition temperature:</b> not applicable <b>Self ignitability:</b> none <b>Lower explosion limit:</b> not applicable (LEL) <b>Upper explosion limit:</b> not applicable (UEL) <b>Vapour pressure:</b> not applicable <b>Solubility:</b> insoluble in water, ethanol and hydrocarbon
10.	<b>Stability and chemical properties</b> <b>Conditions to avoid:</b> not necessary <b>Materials to avoid:</b> strong oxidants, chlorine, permanganate <b>Dangerous educts:</b> At the combustion of activated carbon carbon monoxide and nitrous gases could emerge. <b>Dangerous polymerization:</b> not applicable
11.	<b>Toxicological informations</b> <b>Effects and dangers on eye contact:</b> Due to physical properties eye irritation could emerge. <b>Effects and dangers on skin contact:</b> Primal index of skin irritation is 0. <b>Effects and dangers on breathing in:</b> Product is nontoxic. The acute index of breathing in LC50 is >64,4mg/l (nominale concentration). <b>Effects and dangers on swallowing:</b> Product is nontoxic. The acute orale index LD50 is >10g/kg. <b>Chronical effect:</b> Effects on resting, marginal exposition are not determined yet. For long-term secure handling with this material, repetitive acute exposition has to be avoided.
12.	<b>Ecological Information</b> not applicable
13.	<b>Disposal considerations</b> Used activated carbon should be disposed off in appropriate disposal locations in accordance to local and national regulations.
14.	<b>Transport information</b> According to PDM, ADR and IATA steamactivated carbon is no hazardous material.
15.	<b>Regulatory information:</b> The activated carbon (CAS Nr. 7440-44-0) is not listed in EU regulation 67/548/EEC concerning hazardous materials This carbon is considered as unhazardous product.
16.	All information provided herein is based on our present knowledge and experience and describes our product with regard to their safety requirements. It presents no assurance of the qualities of the described product in the sense of legal warranties and may not be considered contractual.