

Safety Data Sheet (REACH Regulation (EC) No 1907/2006 - No 453/2010)

Trade name: HOBBY Zeo Carbon 500g Item

no.: 20079

Manufacturer: Dohse Aquaristik GmbH & Co. KG, Otto Hahn Str. 9, D-53501 Grafschaft Gelsdorf, Phone: +49(0)2225-94150

Version no.: 1 - Created on: 19.05.2020 / Revision : -/- / Created on: -/- / Print date: 20.05.2020

1 Identification of the substance/preparation and of the company/undertaking	
1.1	Product identifier
	Trade name: HOBBY Zeo Carbon 500g
	Article no: 20079
	Chemical name / Synonyms: Activated carbon
1.2	Relevant identified uses of the substance or mixture and uses, which are discouraged
	Used as an adsorbent in industrial, professional and consumer applications.
	Use descriptor system (REACH): SU3 : PROC 1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 22 SU22 : PROC 1, 2, 3, 4, 5, 8a, 8b, 9, 15 SU21 : PC 2, 3, 29, 35, 37, 39
	The attached exposure scenarios provide a complete list for all areas.
1.3	Details of the supplier providing the safety data sheet
	Name of the company: Dohse Aquaristik GmbH & Co KG Otto Hahn Str. 9 D-53501 County Gelsdorf Phone: +49(0)2225-94150 Fax: +49(0)2225-946494 eMail: info@dohse-aquaristik.de
	Availability: Mon.-Thurs. 7.30-16.30 Fri. 7.30-13.00
1.4	Emergency number: +49(0)2225-94150
2 Possible dangers	
2.1	Classification of the substance or mixture
	Complies with Directive (EC) No 1272/2008 and its adaptations.
	This substance does not pose a physical risk. See recommendations on other products before Place.
	This substance does not pose a health hazard, except in the case of possible Limit value exceeded at the workplace (see sections 3 and 8).
	This substance poses no environmental risk. Under normal conditions of use, there is no environmentally harmful effect known or foreseeable.
	Complies with 67/548/EEC, 1999/45/EC and their adaptations.
	This substance does not pose a physical risk. See recommendations on other products before Place.
	This substance does not pose a health hazard, except in the case of possible Limit value exceeded at the workplace (see sections 3 and 8).
	This substance poses no environmental risk. Under normal conditions of use, there is no environmentally harmful effect known or foreseeable.
2.2	Labelling elements
	Complies with Directive (EC) No 1272/2008 and its adaptations.
	No labelling is required for this substance.
2.3	Other hazards
	Dust generated by mechanical processing (sanding, sawing, etc.) can cause irritation effects. cause by inhalation or contact with eyes.
	The substance does not meet the criteria applied to PBT or vPvB substances, according to Annex XIII of the REACH Directive (EC) No 1907/2006.
	Can lead to the formation of CO and CO2 in case of fire.
	According to the ECHA Guidance on Chemical Safety Assessment, Chapter R11, Section R11.1.2.1: "The PBT and vPvB criteria of Annex XIII of the Regulation do not apply to inorganic substances". As activated carbon - HDS is considered an inorganic substance, the PBT Assessment not to be applied.

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	Moist activated carbon removes oxygen from the air. This can result in dangerously low oxygen levels. When people enter a container of activated carbon, the oxygen level should be determined and the rules for areas of low oxygen content should be applied.			
3	Composition / information on ingredients			
3.1	Fabrics			
	Composition :			
	Identification:	(EC) 1272/2008:	67/548/EEC:	Hint:
	CAS: 7440-44-0 EC: 931-328-0 REACH: 01-2119488894-16-0013 ACTIVATED CARBON - HIGH SKELETAL DENSITY (AC-HDS)	-/-	-/-	-/-
				%: 100%
	Information on ingredients:			
	A porous, amorphous adsorbent with a large surface area, which consists predominantly of elemental Carbon consists.			
4	First aid measures			
	In case of doubt or if symptoms persist, consult a doctor. Never give anything by mouth to an unconscious person.			
4.1	Description of the first aid measures			
	After inhalation:			
	In case of irregular breathing or respiratory arrest, give artificial respiration and consult a doctor. call.			
	Fresh air supply			
	Consult a doctor if you have a cough or any symptoms of the respiratory tract.			
	After skin contact:			
	Check for product residues between skin and clothing, wristwatch, shoes, etc.			
	Wash with soap and water.			
	Remove contaminated clothing.			
	Consult a doctor if irritation occurs.			
	After eye contact:			
	With the eyelid open, rinse thoroughly with soft, clean water for at least 15 minutes. rinse.			
	Consult an ophthalmologist in case of discomfort, redness or impaired vision.			
	After ingestion:			
	Do not allow anything to be taken by mouth.			
	If small amounts are ingested (no more than one sip), rinse mouth with water and take a Consult a doctor.			
	Call a doctor immediately and show him the label.			
	Drink at least 1/2 litre of water.			
	Consult a doctor if you have any complaints about the digestive organs.			
	Do not induce vomiting.			
4.2	Most important symptoms and effects, both acute and delayed			
	If large amounts are taken orally, constipation may occur.			
4.3	Indications for immediate medical help or special treatment			
	Means available at the workplace for targeted and immediate treatment :			
	N/A			
	Notes for the doctor :			
	The efficacy of medicines can be reduced by the adsorption effect of activated carbon become.			

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5	Fire fighting measures	
5.1	Extinguishing agent	
	Suitable extinguishing agents	
	Use in case of fire :	- Water spray or water mist - Carbon dioxide (CO ₂) - Foam - Powder
	Unsuitable extinguishing agents	
	Do not use in case of fire:	- Water jet
	Do not use water for extinguishing in enclosed areas.	
5.2	Special hazards arising from the substance or mixture	
	In case of fire, dense black smoke is often produced. Exposure to decomposition products can be harmful to health. Do not inhale smoke.	
	In the event of a fire, :	- Carbon monoxide (CO) - Carbon dioxide (CO ₂) - other unknown decomposition products in used Activated carbon.
	After a fire, pockets of embers can remain for a longer period of time. Glowing activated carbon stored for a longer time in a closed room can lead to the accumulation of carbon monoxide to above the lower explosion limit.	
5.3	Advice for firefighters	
	Due to the toxicity of the gases produced during thermal decomposition, independent Respiratory protective equipment (insulating equipment) to be used.	
6	Accidental release measures	
6.1	Personal precautions, protective equipment and in emergencies procedures to be followed	
	Follow protective measures in sections 7 and 8.	
	For rescue personnel	
	Operational personnel must be equipped with appropriate personal protective equipment (see section 8).	
6.2	Environmental protection measures:	
	Prevent penetration into the sewage system or water bodies.	
6.3	Methods and material for retention and cleaning:	
	Collect product by mechanical means (broom/vacuum cleaner).	
6.4	Reference to other sections	
	See also sections 2 and 8	

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7	Handling and storage
	For the premises in which the substance is worked with, the regulations for Deposits.
7.1	Protective measures for safe handling
	Wash hands after each use. Avoid dust formation. When unloading, ensure clean work and follow work procedures. See exposure control and personal protective measures in section 8.
	Notes on fire and explosion protection :
	Prevent access for unauthorised persons. Avoid dust formation. Keep away from heat sources. To be translated (XML)
	Instructions for safe handling :
	For personal protection, see section 8. Observe information on the label and occupational health and safety regulations. Ensure container and adequate ventilation. When people enter a container of activated carbon, the oxygen content should be determined and the rules for areas of with low oxygen content should be applied.
	Improper equipment and method of operation :
	Smoking, eating and drinking are prohibited in the premises where the substance is used, forbidden.
7.2	Conditions for safe storage taking into account incompatibilities
	Keep away from chemicals (solvents and strong oxidising agents). Keep away from heat sources. Store in well ventilated areas. Store the container away from moisture.
	Storage
	Do not store in the presence of chemicals (solvents and strong oxidising agents). Keep away from these chemicals. Storing moist activated carbon in closed rooms removes oxygen from the air.
	Packing
	Always store the product in packaging that corresponds to the original packaging. Store in sealed original packaging.
7.3	Specific end uses
	No information available.

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8 Exposure controls / Personal protective equipment	
8.1	Parameters to be monitored
	Note the determination for dust (inhalable and respirable) and for respirable quartz. Please refer to Annex 1 for the respective national exposure limit values. (enclosed).
	Occupational exposure limits :
	Dust not further classified: 10 mg/m ³
	Biological limits :
	-/-
	Derived no adverse effect exposure level (DNEL) or derived exposure level with minimal adverse effect (DMEL):
	ACTIVATED CARBON - HIGH SKELETAL DENSITY (AC-HDS) (CAS: 7440-44-0)
	End use: Workers.
	Type of exposure: Inhalation.
	Possible effects on the Health: Local short-term consequences.
	DNEL : 3 mg of substance/m ³
	Type of exposure: Inhalation.
	Possible effects on the Health: Systemic long-term consequences.
	DNEL : 3 mg of substance/m ³
	End use: Consumers.
	Type of exposure: Inhalation.
	Possible effects on the Health: Local short-term consequences.
	DNEL : 0.5 mg of substance/m ³
	Type of exposure: Inhalation.
	Possible effects on the Health: Systemic long-term consequences.
	DNEL : 0.5 mg of substance/m ³
8.2	Exposure controls and monitoring
	Appropriate engineering controls
	Local venting recommended. No safety measures are required when using granular activated carbon. They however, are recommended.
	Personal protective measures such as personal protective equipment
	Use clean and properly maintained personal protective equipment. Keep personal protective equipment in a clean place, away from the work area. Do not eat, drink or smoke during use. Remove and wash contaminated clothing before using again. Ensure adequate ventilation, especially in closed rooms.
	Protection for eyes/face: Avoid contact with eyes. Whenever working with powder or dust formation, a wear a protective mask that complies with the EN 166 standard.
	Hand protection: In case of prolonged or repeated skin contact suitable Wear protective gloves.
	Body protection: Staff shall wear regularly laundered work clothes. After contact with the product, all soiled body parts must be washed.
	Respiratory protection: Do not inhale dust.

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	Type of FFP mask : Class : Particle filter according to standard EN143:	Wear a disposable half mask with dust filtering function according to standard EN 149. - FFP2 - P (White)
8.2.3	Exposure controls with regard to environmental protection	
	Local exhaust ventilation for removal at source. Store in container. Observe the prescribed waste disposal guideline.	
9	Physical and chemical properties	
9.1	Information on the basic physical and chemical properties	
	General information :	
	Form :	Solid granules
	Colour:	Black
	Odour:	none
	Important health, safety and environmental information	
	PH (aqueous solution) :	7-11
	pH :	not relevant.
	Boiling point/boiling range :	not relevant.
	Flash point range :	not relevant.
	Explosion hazard, lower Explosion limit (%) :	NC
	Explosion hazard, upper Explosion limit (%) :	NC
	Vapour pressure (50°C) :	Not specified
	Density : Method for determining the Density:	200-700 kg/m3 ASTM D2854
	Water solubility : Method for determining the Water solubility:	insoluble 0 OCDE Guideline 105 (Water solubility).
	Fat solubility :	0
	Partition coefficient : n-octanol/water :	NA
	Melting point/melting range :	Not relevant
	Auto-ignition temperature :	unconcerned
	Point/interval of decomposition :	unconcerned
9.2	Other information	
	The physical and chemical properties of used activated carbon may differ from those of the fresh coal.	

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10	Stability and reactivity	
10.1	Reactivity	
	Under normal conditions of storage, transport and use, the product does not exhibit any Reactivity on.	
10.2	Chemical stability	
	This substance is safe to use if the recommended handling and storage instructions in section 7 are followed. Storage stable.	
10.3	Possibility of hazardous reactions	
	In contact with solvents and strong oxidising agents.	
10.4	Conditions to avoid	
	Avoid :	- Dust formation - Heat - Heat - Humidity
	Dust can form an explosive mixture with air.	
10.5	Incompatible materials	
	Keep away from :	- strong oxidising agents - combustible substances - strong acids - Solvent
10.6	Hazardous decomposition products	
	Thermal decomposition can release/form :	- Carbon monoxide (CO) - Carbon dioxide (CO ₂)
11	Toxicological information	
11.1	Information on toxicological effects	
	Dust generated by mechanical processing (sanding, sawing, etc.) can cause irritation effects. cause by inhalation or contact with eyes.	
11.1.1	Dust generated by mechanical processing (sanding, sawing, etc.) can be Cause irritation by inhalation or contact with eyes.	
	Based on the physical and chemical properties of activated charcoal, the absence of effects in toxicological studies and the therapeutic use of activated charcoal as an adsorbent in the treatment of acute poisoning and diarrhoea, it can be expected that activated charcoal will not be absorbed via oral, dermal and inhalation routes. will.	
	Acute toxic effect :	
	ACTIVATED CARBON - HIGH SKELETAL DENSITY (AC-HDS) (CAS: 7440-44-0)	
	Oral :	LD50 > 2000 mg/kg Species : Rat OECD Guideline 423 (Acute Oral toxicityAcute Toxic Class Method)
	Inhalative (dust/mist):	LC50 > 64.4 mg/l Species : Rat OECD Guideline 403 (Acute Inhalation Toxicity)
	Corrosive/irritant effect on the skin:	
	ACTIVATED CARBON - HIGH SKELETAL DENSITY (AC-HDS) (CAS: 7440-44-0)	
	Corrosivity :	Without observable effect. Species : Rabbit OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

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Serious eye damage/eye irritation :	
ACTIVATED CARBON - HIGH SKELETAL DENSITY (AC-HDS) (CAS: 7440-44-0)	
Corneal opacity :	Average value = 0.00 Species : Rabbit Exposure time : 72 h OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Iritis :	Average value = 0.00 Species : Rabbit Exposure time : 72 h OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Reddening of the conjunctiva :	Average value = 0.67 Species : Rabbit Exposure time : 72 h OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Conjunctival oedema :	Average value = 0.33 Species : Rabbit Exposure time : 72 h OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Sensitisation of the respiratory tract or skin :	
Skin:	Non-irritant.
Inhalation:	No information available
ACTIVATED CARBON - HIGH SKELETAL DENSITY (AC-HDS) (CAS: 7440-44-0)	
Stimulation test of the lymph nodes :	Not sensitising. Species : Mouse OECD Guideline 429 (Skin Sensitisation: Local Lymph Node assay)
Germ cell mutagenicity :	
All studies showed that the substance had no genotoxic potential. It can therefore be concluded that the substance is not mutagenic and does not need to be classified according to the criteria of Annex I to 1272/208/EC (CLP / EU GHS) and Annex VI to 67/548/EEC (DSD/DPD).	
ACTIVATED CARBON - HIGH SKELETAL DENSITY (AC-HDS) (CAS: 7440-44-0)	
Mutagenesis (in vitro) :	Negative. Species : Bacteria OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Ames test (in vitro) :	Negative. With or without metabolic activation. Species : S. typhimurium TA1535
Carcinogenicity :	
No data available	
Reproductive toxicity :	
No data available	
Specific target organ toxicity - single exposure :	
ACTIVATED CARBON - HIGH SKELETAL DENSITY (AC-HDS) (CAS: 7440-44-0)	
Oral :	C > 2000 mg/kg bodyweight Species : Rat

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12	Environmental information	
12.1	Toxicity	
12.1.1	Substances	
	Since activated carbon is insoluble in water, no toxicity is expected.	
12.2	Persistence and degradability	
	Activated carbon of the HDS type is a resistant material and not amenable to destruction by natural or enzymatic processes. Activated carbon - HDS cannot be converted into a soluble form that can be absorbed. Therefore, activated carbon cannot find a way into cells where biodegradation is conceivable. is.	
12.3	Bioaccumulative potential	
	The substance has a very low potential for bioaccumulation in aquatic species (e.g. fish), e.g. BCF < 10 The substance has a particle size (> 0.5 µm) that does not pass through membranes and is not soluble. A bioaccumulation study is therefore not feasible.	
12.4	Mobility in soil	
	No data available as the substance is insoluble.	
12.5	Results of the PBT and vPvB assessment	
	According to the ECHA Guidance on Chemical Safety Assessment, Chapter R11, Section R11.1.2.1: "The PBT and vPvB criteria of Annex XIII of the Regulation are not applicable to inorganic substances". As activated carbon - HDS is considered to be an inorganic substance, a PBT- Assessment not to be carried out.	
12.6	Other adverse effects	
	No information available.	
	German Ordinance on the Classification of Water Hazard (WGK) :	
	Not hazardous to water (VwVwS of 27/07/2005, KBws) : Not hazardous to water.	
13	Notes on disposal	
	Waste of the substance and/or its container shall be disposed of in accordance with the provisions of the Directive. 2008/98/EC to be disposed of.	
13.1	Waste treatment process	
	Do not discharge into drains or watercourses.	
	Waste :	
	Waste disposal must be carried out without risk to humans and the environment, in particular to water, air, soils, fauna and flora. Disposal or recycling in accordance with valid legislation preferably by an approved waste collector or a specialist disposal company. Do not contaminate soil or groundwater, do not dispose of waste in the environment.	
	Soiled packaging :	
	Only dispose of the container when it is empty. Do not remove the label(s) on the container. Return to an authorised waste disposal company.	
	Waste codes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste):	
	used activated carbon:	19 09 04
	Used activated carbon from of the exhaust gas treatment:	19 01 10*
	Used activated carbon made from inorganic chemical Processes:	06 07 02* - activated carbon from chlorine production / 06 13 02* - spent activated carbon (except 06 07 02*)
	other applications:	See Waste Catalogue Ordinance

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14 Transport information										
The product must be transported in accordance with the ADR regulations for road transport, RID regulations for rail transport, IMDG regulations for maritime transport, ICAO/IATA regulations for air transport (ADR 2013 - IMDG 2012 - ICAO/IATA 2014).										
14.1 UN number										
1362										
14.2 UN proper shipping name										
UN1362=CARBON, ACTIVATED										
14.3 Transport hazard classes										
Classification : 4.2										
Exception :										
ADR/RID: special provision 646										
IMDG: special provision 925 > Physically activated carbon										
IATA: special provision A3 > The defined criteria are not achieved, after carrying out a 4.2 test (carriage of dangerous goods - UN Manual on Testing and Criteria (§33.3.1.3.3))										
14.4 Packing group										
III										
14.5 Environmental hazards										
-/-										
14.6 Special precautions for the user										
ADR/RID	Class	Code	PG	Hazard no.	EmS	QL	Dispo.	EQ	Cat.	Tunnel
	4.2	S2	III	4.2	40	0	646	E1	4	E
IMDG	Class	2. GZ-No.	PG	QL	Ems	Dispo.	EQ			
	4.2	-	III	0	F-A,S-J	223 925	E1			
IATA	Class	2. GZ-No.	PG	Passenger	Passenger	Freight	Freight	Note	EQ	
	4.2	-	III	472	0.5 kg	472	0.5 kg	A3	E1	
	4.2	-	III	Forbidden	Forbidden	-	-	A3	E1	
For restricted quantities, see OACI/IATA section 2.7. and ADR and IMDG chapter 3.4. For exempted quantities see OACI/IATA section 2.6. and ADR and IMDG chapter 3.5.										
14.7 Carriage in bulk in accordance with Annex II of the MARPOL Convention and in accordance with IBC code										
No indication available										
15 Legislation										
15.1 Regulations on safety, health and environmental protection/specific Legislation for the substance or mixture										
Information regarding classification and labelling is given in section 2 A19:										
The following guidelines have been taken into account:										
Directive 67/548/EEC and its adaptations										
Directive 1999/45/EC and its adaptations										
- Regulation (EC) No 1272/2008 as amended as Regulation (EU) No 487/2013										
- Regulation (EC) No 1272/2008 as amended as Regulation (EU) No 758/2013										
- Regulation (EC) No 1272/2008 as amended as Regulation (EU) No 944/2013										
- Regulation (EC) No 1272/2008 as amended as Regulation (EU) No 605/2014										
Information regarding the packaging:										
No information available.										
Special provisions :										


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	No information available.	
	German Ordinance on the Classification of Water Hazard (WGK) :	
	Water hazard class :	Not hazardous to water (VwVwS of 27/07/2005, KBws)
	American standardised system for determining the hazards of the product for Rescue Operations (NFPA 704) :	
	NFPA 704, Labelling :	Health=0 Inflammability=1 Instability/Responsiveness=1 Special Risk =none
		
15.2	Chemical Safety Assessment	
	A chemical safety assessment according to the rules foreseen in the REACH Directive has been carried out. The annexes contain an overview of the risk management measures based on this review.	
16	Other information	
	<p>As we have no information about the working conditions of the user, the information in this safety data sheet is based on the state of our knowledge and the national and EC regulations. The user is responsible for ensuring that all necessary measures are taken to comply with legal requirements and local regulations.</p> <p>The information in this safety data sheet should be regarded as a description of the safety requirements for this substance and not as a guarantee that it will be used.</p> <p>Properties.</p>	
	Complies with 67/548/EEC, 1999/45/EC and their adaptations.	
	Safety instructions :	
	S 22:	Do not inhale dust.
	Abbreviations :	
	DNEL :	Derived exposure level without impairment
	ADR :	European Convention on the International Carriage of dangerous goods by road
	IMDG :	International Maritime Dangerous Goods.
	IATA :	International Air Transport Association.
	OACI :	International Civil Aviation Organisation.
	RID :	Regulations concerning the International carriage of Dangerous goods by rail.
	WGK :	Water hazard class.

End of the document

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