

1. Chemical product identification and company identification

1.1 Name of preparation:

AQUALIN® (filter coal H)

1.2 Application of preparation:

Water treatment

1.3 Supplier

Euroquarz GmbH Tel.: ++ 49 2362 / 2005 0
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Producer

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1.4 Contact: Mr. Vespermann 49 170 / 56 38 731

2. Composition / information of ingredients**2.1 Chemical characterization (single substance)****2.1.1 CAS no. Desig. according to EEC directive Distinguishing Hazards**

65996-77-2 Coke (Coal)

Mark: none

Classific: none

2.1.2 Identification number(s)

none

2.1.3 Additional information

analytical reference values

Moisture 0,5 %wt

Ash 9,0 %wt

Volatiles 3 %wt

Fixed carbon 87,5 %wt

Grain size 1,25-5 mm

2.2 Chemical characterization (preparation)**2.2.1 Description**

no preparation

3. Possible risks**3.1 Hazards identification**

None

3.2 Special hazards information for man and environment

None

4. First aid**4.1 General information**

none

4.1.1 After inhalation

of major quantities: fresh air, see also no. 11

4.1.2 After skin contact

wash off with water

4.1.3 After eye contact

wash out with water

4.1.4 After swallowing

minor quantities are not noxious, drink water

4.1.5 Information for the physician

none

5. Fire fighting measures**5.1 Suitable extinguishing agents:**

in the closed silo the fire is extinguished by:

- hermetical closure outside the closed silo:
- water with wetting agent (only use spray jet)
- fire foam (use only main jet foam)
- cover with humid soil, sand or similar material

5.2 Unsuitable extinguishing agents and equipment

- fire-extinguishing equipment with a high extinguishing agent output
- water in the form of a full jet

5.3 Particular hazards resulting from the substance, its products of combustion and the produced gases

none

5.4 Special ion equipment

fireproof clothes in case of open fires

6. Accidental release measures:**6.1 Person-related safety measures:**

avoid ignition sources

6.2 Environmental protection measures

none

6.3 Cleaning / pick-up methods

- pick up material mechanically and fill it into appropriate containers
- clean polluted areas with water

6.4 Additional information

released product may be reused

7. Handling and storage:**7.1 Information on safe handling**

store product in closed systems, if possible

7.1.1 Information on fire and explosion protection

remove accumulations outside the system immediately

7.2 Storage**7.2.1 Requirements to be met by storerooms and containers**

- storage temperature must not exceed 80 °C
- silo must allow hermetical closure
- avoid ignition sources
- silo components have to be earthed and connected conductively

7.2.2 Information concerning storage together with other materials

none

7.2.3 Further information on storage conditions**7.2.4 Store class:** none

8. Exposure controls / personal measures:

- 8.1 Additional information on plant design** store product in closed systems
- 8.2 Components with working place-related limits that have to be monitored**
fine dust (according to TRGS 900)
- 8.2.1 Additional information** avoid dust development
- 8.3 Personal protection**
- 8.3.1 General protection and sanitation measure**
none
- 8.3.2 Respiratory protection**
depending on dust development: dust protecting mask (Protection level P1)
- 8.3.3 Hand protection**
protective gloves
- 8.3.4 Eye protection**
in the case of dust development: protective glasses
- 8.3.5 Body protection**
in the case of longer dust exposure: protective skin ointment

9. Physical and chemical properties:

- 9.1.1 Shape** granular, flowable
- 9.1.2 Colour** black
- 9.1.3 Odour** no specific odour
- 9.2 Change in state** not applicable
- 9.3 Flash point** not applicable
- 9.4 Flammability** not easily flammable according to VDI 2263
- 9.5 Ignition temperature** >850 °C
- 9.6 Self-ignition** no spontaneous heating as per ADR/RID
- 9.7 Explosion hazard** not explosible in a mixture with air
- 9.8 Explosion limits (lower explosion limit)** not applicable
- 9.9 Steam pressure** not applicable
- 9.10 Bulk density** approx. 0,45 g/cm³
- 9.11 Solubility** not applicable
- 9.12 pH value** alkaline (water above the settled coke in a 10 % coke/water solution)
- 9.13 Distribution coefficient** not applicable
- 9.14 Type of viscosity** not applicable
- 9.15 Solvent separation test** not applicable
- 9.16 Solvent content** not applicable
- 9.17 Further data:**
- Combustible solid (fire class A)
 - combustion behaviour according to VDI 2263 at 100 °C
 - BZ2 (brief ignition and rapid extinction)

10. Stability and reactivity:

- 10.1 Conditions to avoid** to avoid self-ignition, prevent air leakage
- 10.2 Substances to be avoided** none
- 10.3 Hazardous decomposition products** none

11. Toxicological information:**11.1 Acute toxicity****11.1.1 Classification-relevant LD/LC50 values** not known**11.1.2 Specific symptoms detected by animal testing**
not known**11.1.3 Primary irritant effect**
weak; see also no. 11.3**11.1.4 Sensitization**
not known**11.1.5 Other information**

when used as specified, the products will not be noxious:
the main portion of the coke/pulverized coke is too coarse to enter the lungs. Only if there are high dust concentrations, may the fine dust portion (that is able to enter the lungs) exceed the air limit. In the case the purification mechanism of the lungs might be overstrained - as would be the case for any other dust as well. (Pulverized) coke irritates the conjunctiva and the mucous membranes of the upper respiratory ducts.

11.2 Subacute and chronic toxicity
not known**11.3 Experience gained in connection with human beings**

the inhaled dust has no carcinogenic, mutagenic, fibrogenic, allergic or chemo-toxic effects. Skin contact with coke can lead to minor skin irritations in the case of sensitive skin types or on perspiring skin

11.4 Additional toxicological information
none**12. Ecological information****12.1 Information on elimination (persistence and degradability)**
not known**12.2 Behaviour in environmental compartments**
environmentally neutral**12.3 Ecological effects**
the products do not endanger the ground water
the products can be separated in mechanical sewage treatment plants**12.4 Further ecological information**
none**13. Disposal considerations****13.1 Product****13.1.1 Recommendation**

reuse or dumping (depending on the type and extent of pollution)

13.1.2 Waste code no.	waste name	obligation to furnish relevant proof
none	none	none

13.2 Uncleaned packings**13.2.1 Recommendation**

none

14. Transport information:

- 14.1. Land Shipment ADR / RID and GGVS / GGVE (transnational/international)** none
- 14.2. Inland waterway shipment ADN/ADR** none
- 14.3. Sea shipment IMDG/GGVESee** none
- 14.4. Shipment by air ICAO -TI and IATA - DGR** none

15. Regulatory information:**15.1 Marking according to EEC directives****15.1.1 Distinguishing mark and hazard classification of the product**

no hazardous substance as defined by the ordinance governing hazardous substances (GefStoffV)

15.1.2 Hazard-defining label component(s) contain(s) not applicable**15.1.3 Hazards classification** none**15.1.4 Safety advice** none**15.1.5 Special marking of certain preparations (according to Annex II of directive 88/379/EEC governing preparations)** none**15.2 National regulations****15.2.1 Additional classification according to "GefStoffV" ordinance governing hazardous substances, Annex II** not application**15.2.2 Information on occupational restrictions** none**15.2.3 Ordinance governing accidents**

does not fall in the scope of the ordinance on major incidents (StoerfallV)

15.2.4 Classification according to the "VbF" ordinance not applicable**15.2.5 Clean air direction** not applicable**15.2.6 Water hazards class**

not endangering water as defined in no. 1.2.VwVwS (reference no. 801, schedule1)

15.2.7 Other regulations, restrictions and prohibitory ordinances

BGV C 12 silo and bunkers

16. Other Information:

Not applicable.