

Product
SPECIAL FILTER
High Flow Filter with NAC Scale Prevention

Version: 1.0
 Revision Date: 02.09.2015

Watch-Water® encourages and expects you to read and understand the entire MSDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1. Identification of the substance and Supplier

a) Product Name:	SPECIAL Filters
b) Other Means of Identification	Model SP 510 Model SP 520
c) Recommended use:	Point of Use for domestic and drinking water applications. Food and beverages. Coffee and Tea preparation water.
d) Company Identification/Supplier	Watch Water GmbH Fahrlachstr. 14 D-68165 Mannheim Germany Phone: + 49 62187951-0 Fax: + 49 62187951-99
e) Emergency information (8:00- 16:45)	Phone: +49 621 87951-50

2. Hazard Identification

2.1 Classification of the substance or mixture

No parts of the Filter are classified as hazardous under the Article 39 Paragraph 1 of the Industrial Safety and Health Act (ISHA). It is not regulated for the MSDS creation and labeling by the provision of Article 41 Paragraph 1 of the ISHA.

2.2 Labeling:

No parts of the Filter are classified as hazardous under the Article 39 Paragraph 1 of the Industrial Safety and Health Act (ISHA).

2.3 Other hazards

No parts of the Filter contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

3. Composition/Information on ingredients

Component	Chemical Identity	Common name	CAS	Conc. (%)
FILTERSORB SP3	Ceramic coating	Calcium hydroxide	1305-62-0	< 1
	Matrix	Modified Acrylic polymer	9003-04-7	> 99
Filter Body	Talc	(Mg ₃ H ₂ (SiO ₃) ₄)	14807-96-6	< 15
	POP	1-Propene, polymer with ethene	9010-79-1	≥ 75
Filter Head	Base Resin	Polyoxymethylene Copolymer	24969-26-4	≥ 99
Carbon Block	Carbon	Carbon	7440-44-0	≥ 94
Carbon Block binder	UHMWPE	Ethene Homopolymer	9002-88-4	< 6

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non hazardous and/or present at amounts below reportable limits.

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4. First-Aid Measures

4.1 General Information:

4.1.1 Eye contact: *No specific information available on the product. Polymer particles can cause mechanical irritation.*

4.1.2 Skin contact: *Hot or molten material has the potential to cause thermal burns. Polymer particles can cause mechanical irritation.*

4.1.3 Inhalation: *No specific information available on the product. Pellets are not considered an inhalation hazard*

4.1.4 Ingestion: *No specific information available on the product, however, low toxicity by this route is expected based on the biological activity of high molecular weight polyacetal polymers.*

Note to physician:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire Fighting Measures

The product is non-combustible.

5.1 Extinguishing media

- **P378:** Extinguish with water, foam, CO₂, dry chemical

5.2 Unsuitable extinguishing media:

- None known

5.3 Exposure hazards:

- None known

5.4 Combustion products:

- carbon oxides

5.5 Protective equipment:

- Firefighters and other exposed, wear self-contained breathing apparatus and protective suit.

6. Accidental Release Measures

6.1 Environmental precautions:

- Keep out of drains and water sources

6.2 Methods for cleaning up:

- Vacuum or sweep up material and placed in a designated waste container.

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7. Handling and Storage

7.1 Handling

- Normal equipment handling.

7.2 Storage

Code	Storage precautionary statements	Hazard Class	Hazard Category	Conditions for use
P412	Store at a temperature not exceeding 40°C (104°F)	n/a	n/a	Media might lose moisture at higher temperature and this might damage the scale-prevention media's active surface.

8. Exposure Control/Personal Protection

8.1 Exposure limit:

- None

8.2 Personal protective equipment (PPE):

8.2.1 Respiratory protection:

- Respiratory protection if dust is formed.
- In case of insufficient ventilation, use an appropriate approved particulate respirators (for example EN 143 or 149, type P2 or FFP2).

8.2.2 Eye protection:

- Have eye flushing equipment available.

8.2.3 Skin protection:

- Suitable material: latex, chloroprene, butyl rubber, nitrile rubber, neoprene.
- Wear appropriate protective clothing. Avoid skin contact with the spilled product.

8.2.4 General protective and hygienic measures:

- Avoid contact with the eyes and skin.

9. Physical and Chemical Properties

Material: FILTERSORB SP3

Appearance	White/opaque solid granules
Odor	Odorless
Odor threshold	n/a
pH (10 g/l)	6.5 - 8.0
Melting point/freezing point	n/a
Initial boiling point and boiling range	n/a
Flash point	n/a
Evaporation rate	Does not evaporate
Flammability	Non-flammable
Upper/lower flammability or explosive limits	n/a
Vapor pressure	n/a
Vapor density	n/a
Relative density	780-800 g/cm ³
Solubility	Non-soluble

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Partial coefficient (n-octanol/water)	n/a
Auto-ignition temperature	Does not auto ignite
Decomposition temperature	≥ 100°C (212°F)
Viscosity	n/a

Material: Filter Body (POP)

Appearance	White solid (under normal temperature)
Odor	Slight characteristic odor
Physical state	solid
Melting Point	165 °C (329 °F)
Solubility	Not soluble
Upper/Lower explosion limit density	1.03 g/cm ³

Material: Filter Head (Polyoxymethylene Copolymer)

Appearance	White solid (under normal temperature)
Odor	Slight characteristic odor
Physical state	solid
Vapor Pressure	< 0.001 mm Hg
Melting Point	165 °C (329 °F)
Solubility	Not soluble
Specific Gravity	1.4 – 1.8

Material: Carbon block

Appearance	Black
Odor	odorless
Physical state	solid
Ignition temperature	≥ 350 °C ()
Solubility	Not soluble
Bulk density	500 - 520 g/cm ³

Material: Carbon block binder (Ethene Homopolymer)

Appearance	White powder
Odor	Slight characteristic odor
Physical state	solid
Specific gravity	0.925 - 0.940 @ 25 °C
Solubility	Not soluble

10. Stability and Reactivity**10.1 Reactivity:**

- The products are stable and do not react under normal condition of use, handling and storage.
- **Thermal decomposition/conditions to be avoided:** No decomposition if used according to specifications. Body polymer could be damage under heat over 170 °C

10.1 Chemical stability:

- All parts of the Filter have NFPA labeling: 0 Stable

10.2 Possibility of Hazardous reactions:

- None known

10.3 Conditions to avoid:

- Avoid contact with mineral acids, excessive heat and bases/alkalis

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- Avoid storing at high temperatures or in direct sunlight.

10.4 Materials to avoid:

- Avoid Contact with strong oxidizing agents and alkaline substances.
- Metals like iron, manganese, copper can foul the media surface in soluble (ionic) form.

10.5 Incompatible Materials:

- No data available

10.6 Hazardous decomposition products:

- No data available

11. Toxicological Information

FILTERSORB SP3 and none of its composition substances are categorized as "toxic" under the GHS guideline.

11.1 Acute toxicity:

- Oral LD50 (rat) >5000 mg/kg (FILTERSORB SP3)

11.2 Skin corrosion/irritation:

- Skin corrosion: No corrosive damage on the skin
- Skin irritation: No irritation of the skin and mucous membranes

11.3 Serious eye damage/irritation:

- Eye: No damage to eyes

11.4 Respiratory or skin sensitization:

- No sensitizing effect known.

11.5 Mutagenicity (Ames test):

- Genotoxicity in vitro: Negative for Salmonella typhimurium mutagenic studies
- Genotoxicity in vivo: no data available

11.6 Carcinogenicity:

- No parts of the Filter are classifiable as a human carcinogen.
- No parts of the Filter are contain any ingredient designated as probable or suspected human carcinogens by: IARC and ACGIH

11.7 Reproductive toxicity:

- No parts of the Filter contain any ingredient designated as probable or suspected reproductive toxicity accordingly Dangerous Substances Directive 67/548/EEC

11.8 STOT Single exposure:

- No data available

11.9 STOT repeated exposure:

- No data available

11.10 Aspiration Hazard:

- No data available

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12. Ecological Information

This product is not classified as dangerous for environment.

12.1 Toxicity:

12.1.1 Aquatic toxicity to fish:

- No parts of the Filter presents no hazard to Aquatic life forms

12.1.2 Toxicity to aquatic plants:

- No further relevant information available

12.1.3 Bio-accumulative potential:

- Not applicable

12.1.4 Mobility in soil:

- No further relevant information available

12.1.5 Environmental data:

- Presents no hazard to the environment

Remark:

No parts of the Filter are classified as dangerous for environment.

13. Disposal considerations

13.1 Product Disposal:

- Dispose of wastes in an approved waste disposal facility.
- In accordance with local and national regulations.

13.2 Advice on cleaning and disposal of packaging:

- Contained packaging should be completely emptied.
- After being properly cleaned, it can be reused.

14. Transport Information

14.1 Land Transport (ADR/RID/ADN):

- Not classified as dangerous good under transport regulations

14.2 Sea Transport (IMDG/IMO):

- Not classified as dangerous good under transport regulations

14.3 Air Transport (IATA/ICAO):

- Not classified as dangerous good under transport regulations

15. Regulatory Information

- Labeling according to EU guidelines
- **Hazard Symbols:** none
- We recommend the following safety precautions:
S-phrases:

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S25 Avoid direct contact with eyes.
S36/37 Wear suitable protective clothing and gloves

16. Other Information

- **NFPA (National Fire Protection Association) & HMIS (Hazardous Materials Identification System (Paint & Coating)) - Classification**
Health: 0 Normal Material
Flammability: 0 will not burn
Instability or Reactivity: 0 Stable
PPE: -
- The information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product feature and shall not establish a legally valid contractual relationship.
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