EC-Material Safety Data Sheet

according to 2001/58/EG and TRGS 220

Date: 27.01.2005
Index 7

1. Name of material, preparation method and manufacturer

1.1 Product data:
Trade name: *microlith*® - Filtration fibers SP 19 Hecht No. 1408

1.2 Application: Filtration

1.3 Manufacturer/Supplier:

Glaswarenfabrik
Karl Hecht GmbH & Co KG
Stettener Str. 22 – 24
97647 Sondheim/Rhön
Germany

Tel. 09779/808-0
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2. Data on composition/ingredients:

2.1 Description:
Products made of textile glass fibers with a nominal diameter of 8 – 50 µm. The product contain a maximum of 0.2% of sizing (spinning agent) basing on polyglycols. The sizing does not contain any mineral oil.

2.2

Hazardous ingredients:	EINECS-Nr.:	Condent %:	Harzard symbol:	R-settings:	Limit values, type:
N/A	---	---	---	---	---

2.3 Additional remarks:

3. Potential risks

3.1 Type of Risk: N/A

R-settings: N/A

3.2 Special risks to individuals and enviroment: N/A

4. First-Aid

4.1 General: Providing instructions for use are complied with, there is no need for First-Aid. Please note the information disclosed in points 7 and 8

4.2 After inhalation: Normally not applicable
If necessary, take persons out in the open that they get some fresh air.

4.3 After skin contact: Normally not applicable.
If necessary, remove mechanically.

4.4 After eye contace: Normally not applicable.
If necessary, rinse with water for serveral minutes.

4.5 After swallowing: Normally not applicable.
If necessary, wash mouth with water.

4.6 Information for physician: Normally not applicable.

5. Fire fighting

5.1 Appropriate fire fighting media:

Adjust fire in the surroundings. The products are non-combustible.

5.2 Inappropriate fire fighting media (safety reasons): N/A

5.3 Particular risks specific to the product, its combustion products or developing gasses:

Under the influence of high temperatures, e.g. during a fire in the ware hous decomposition products like carbon oxide may engender from the low organic content.

5.4 Required fire fighting PPE:

Wear self-supplied respiratory protector, complete protection depending on size of fire.

5.5 Additional information:

Dispose of contaminated water for firefighting according to the prescriptions of (local) authorities.

6. Actions on inadvertent release:

Absors by mechanical means and dispose of according to item 13. Avoid development of dust. See also item 8.

7. Handling and storage

7.1 safe handling information including technical safe guarding:

Increased mechanical stress of the filtration fibers may generate dust and airborne fibers which may caus discomfort. At skin contact, skin irritations are possible. Availability of a local suction os advised. The general hygiene rules and measures applying for the handling of chemicals must be employed.

See also item 8.

Fire and explosion related information: The products are non-combustible.

7.2 Safe storage conditions

Storage room/warehouse requirements:

Storage rooms must be well ventilated. Do not store product in passage ways and staircases; also do always store it in original packing which should be intact.

Incompatible materials/restriction on combined storage: N/A

Storage conditions: Storage at room temperature and dryly. Protect against humidity.

Special requirements on electric systems and equipment: N/A

Static charge prevention: N/A

8. Exposure control and Personal Protective Equipment (PPE)

8.1 Additional information for the design of technical equipment: See item 7.1

8.2 Substances with work-place related limit values/classification subject to control:

CAS-No., EINECS-No.:	Substance:	Max. worksite concentration (MEK):	Peak value:
---	General dust limit value: Respirable content (E) Alveola related conten (A)	*	

*We attach a list of available limits for dusts for European countries to this MSDS.

Additional remarks:

The fibers processed in our products are uniform and are not subject to EC Guideline 97/69/EC.. Furthermore, our products are not considered carcinogenic according to EC Guideline 1999/45/EC and TRGS 220 (Germany). The glass fibers processed in our products are produced according to a defined process and have a nominal diameter of 8 – 50 micron.

8.3 Persinal Protective Equipment (PPE)

If the instructions of item 7.1 is complied with, PPE is not required.

Respiratory protection: At elevated airborne fiber and dust levels, we recommend to use a respiratory equipment (dust mask with fine filter according to EN 143), Filter P1 (EN141)

Eye protectin: In case of airborne fibers and dust, we recommend to wear safety glasses (EN 166)

Hand protection: We recommend safety gloves to avoid possible skin irritation (leather or cotton gloves)

Body protection: long-seeved safety clothing as well as normal personnel protective Equipment (e.g. safety boots EN 344)

General protecting and hygiene:

Befor breaks and after the end of the work day, wash hands thoroughly. In case of ensitive skin, apply a rich, protective hand lotion/cream. To protect against skin irritation, avoid wearing tight-fitting garments.

9. Physical and chemical properties

9.1	**Appearance**	
	Shape/State of aggregation:	solid **Color:** transparent-white **Odor:** inodorous
9.2	**pH-Value** (2g in 100 ml water, 20°C):	9,0 – 9,5 (DIN 54276)
9.3	**Boiling point/boiling range**:	N/A
9.4	**Melting point/melting range**:	approx. 680°C (softening point of glass)
9.5	**Flash point:**	N/A
9.6	**Flammability:**	The products are non-combustible
9.7	**Ignition temperature:**	N/A
9.8	**Self- ignitation:**	N/A
9.9	**Danger of explosion:**	N/A
9.10	**Explosion limits:**	**lower**: N/A **upper**: N/A
9.11	**Fire promoting properties:**	Cannot be applied according to the laws of the European Community
9.12	**Vapor pressure:**	N/A
9.13	**Density,** expressed as bulk density (20°C):	2,52 g/cm³ (raw glass)
9.14	**Solubility in water:**	insoluble
9.15	**Solubility in fat:**	insoluble
9.16	**Distribution coefficient n-Octanol/water:**	N/A
9.17	**Other:**	

10. Stability and reactivity

10.1	**Conditions to be avoided:**	humidity
10.2	**Substances to be avoided:**	When handles as instruced, none know.
10.3	**Hazardous decomposition products:**	N/A
10.4	**Other:**	These products are not reactive.

11. Toxicology data

11.1 Texological tests

Acute toxicity, e.g. LD50:	no data available
Specific symptoms of animal tests:	no data available
Primary irritant / caustic action:	no data available
Sensitization:	no data available
Effects after repeated or prolonged exposure: (sub-acute to chronic toxicity):	no data available
Carcinogenic risks:	no,97/69/EG
Genotype and reproduction risks:	no data available
Other:	See item 8.2

11.2 Practical experience

Classification specific information:	no data available
Other:	

11.3 General remarks:

12. Ecology data

12.1 Elimination data (Persistence and degradability): no data available

12.2 Environment behavior

Mobility:	no data available
Bio-accumulation potential:	no data available

12.3 Eco-toxicological effects

Aqueous toxicity:	no data available
Behavior in sewage plants:	N/A

12.4 Other ecological data:

CSB-Value: - mg/g **BSB_5-Value**: - mg/g **AOX- note**: N/A

General remarks

13. Disposal:

13.1 Product:

Waste Code No.: EWC-Code 101103
Appropriate (waste) dump or garbage incinerating plant

13.2 Impure packing/wrapping material:

Remove fibers remains from packing/wrapping material. Disposal/recycling according to Packing Material Ordinance.

Waste code No.:	**Waste type:**	**Accountability:**

14. Transport (national/international)

14.1	**Overland:**	ADR/RID-, GGVS/GGVE-class
14.2	**Inland waterways**:	ADN/ADNR-class
14.3	**Overseas:**	IMDG/GGVSee-Class
14.4	**Air:**	ICAO/IATA-Class
14.5	**Transport/other info:**	Non-hazardous goods according to items 14.1 – 14.4

15. Regulations

15.1 Identification according to EC Guidelines

Risk designation and alphabetical code:	N/A
contains:	N/A
R-settings:	N/A
S-settings:	N/A
Specific identification of certain preparations:	N/A

15.2 National regulations:

Indications for employment limit:	N/A
Ordinance conc. disruptive events:	N/A
Operating safety ordinance:	N/A
Technical instructions on maintaining air purity:	N/A
Water hazard class:	1 (according to VwVwS dd. 17.05.1999)
Other regulations, restrictions and prohibitions:	N/A

16. Other

Further information:

N/A = not applicable

Modification in comparison to Index 6: 1.4, 7.1, 8.2, 11.1, 15.2

Please note:
Data quoted in this Safety Data Sheet relate exclusively tot he filtration fibers described and not to a combination of this product with any other kind of substance, a different preparation, or a different material resp. process. The data describes issues relevant to safety according to the best of our knowledge as it is to dated and are intended to protect human beings and the environment. They do not represent quality characteristics nor may they be construed as a release of responsibility when handling filtration fibers nor from compliance with existing legal regulations and obligations. The data address wholesalers and are not intended for private users.

Available limits to be monitored in European Countries (item 8.2)

Country	General limit for dust
Belgium	10 mg/m³ inh., 3mg/m³ alv. (ACGIH, MAK)
Denmark	3 mg/m³ (org. stv, total), 10 mg/m³ (mineralsk, stov, inert), 5 mg/m³ (mineralsk, stv, inert, respirable)
Germany	3 (6) mg/m³ A, 10 mg/m³ E (2.4 TRGS 900)
Finland	5 mg/m³ (orgaaninen pöly), 10 mg/m³ (epäorgaaninen pöly)
France	10,5 mg/m³ inhalable, 3 mg/m³ alvéolaire (MAK)
Greece	3 mg/m³ áíáoí., 10 mg/m³ aéóoí. (ACGIH, MAK)
Great Britain	10 mg/m³ (inhal. Dust), 4 mg/m³ (respir. Dust)
Ireland	10 mg/m³ (total inhal. Dust), 4 mg/m³ (respir. Dust)
Italy	10 mg/m³ i., 3 mg/m³ a. (ACGUIH, MAK)
Croatia	There isn't a general limit for dust but only limits for special kinds of dust. recommendation: 3 (6) mg/m³ A, 10 mg/m³ E (like Germany)
Luxemburg	3 (6) mg/m³ A, 10 mg/m³ E (2.4 TRGS 900)
The Netherlands	10 mg/m³ (inhaleerbaar), 5 mg/m³ (respirabel)
Austria	6 mg/m³ F (15 mg/m³ G)
Poland	ogólna graniczna wartosc pylu = 10 mg/m³ (Gesamtstaub)
Portugal	10 mg/m3 i., 3 mg/m3 a. (ACGIH, MAK)
Sweden	10 mg/m³ (total damm), 5 mg/m³ (respirabelt damm)
Slovakia	Vseobecná hranicná dnota pre prach = 10 mg/m³
Slovenia	Splosna meja prahu = 6 mg/m³ (alveolengängige Fraktion)
Spain	10 mg/m³ i., 3 mg/m³ a.
Czech Republic	Obecná limitnì hodnota prasnosti = 10 mg/m³
Hungary	Általános porhatárérték = 10 mg/m³ (Totális (belélegezhetö)), 6 mg/m³ (Respiràbilis)