

Date of issue: 31.05.2005

Version: 0005

n.ap. = not applicable

n.av. = not available

KNAUF USG Systems GmbH & Co. KG

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation

Trade name **AQUAPANEL® Exterior Reinforcing Mesh**

Recommended use **reinforcing fabric**

Substance code **60006**

1.2 Company/undertaking identification

KNAUF USG Systems GmbH & Co. KG

Zur Helle 11

D-58638 Iserlohn

Telephone: int+49-(0)2374-5036-0

Telefax: int+49-(0)2374-5036-300

1.3 Emergency telephone

Giftnotruf Berlin, Beratungsstelle für Vergiftungserscheinungen und Embryonaltoxikologie

Telephone: int+49-(0)30-19240

2. Composition/information on ingredients

This product is a textile woven glass-filament fabric with woven auxiliary agents and components based on poly(vinyl alcohol) and polymer dispersion.

2.1 Substances presenting a health / environmental hazard within the meaning of Directive 67/548/EEC

CAS number	EC number	Identification	m %	Symbols	R-phrases
n.ap.	n.ap.	n.ap.	n.ap.	n.ap.	n.ap.

Further details see point 15. Full text of the R-phrases see point 16.2.

2.2 Substances subject to recognised exposure limit values pursuant to Community provisions but which are not covered by the Directive 67/548/EEC (see also point 8.)

Fiber dust, no limited evidence of a carcinogenic effect.

2.3 Additional information

None.

3. Hazards identification

3.1 Hazards identification

No special hazards have to be mentioned.

3.2 Critical hazards to man

No special hazards have to be mentioned, however irritation of the skin is possible in case of contact with glass particles.

Avoid liberation of fiber dust during processing and treatment.

3.3 Critical hazards to the environment

None.

4. First aid measures

4.1 General information

None.

4.2 after inhalation

n.ap.

4.3 after contact with skin

Wash off immediately with soap and water and rinse thoroughly.

Seek medical advice if skin irritation persists.

4.4 after contact with eyes

If fiber dust entering the eyes do not rub the eyes.

Rinse thoroughly with plenty of water. Consult an eye-specialist.

4.5 after ingestion

n.ap.

4.6 Hints for the physician

Symptoms

n.av.

Hazards

No particular hazards known.

Treatment

Treat symptomatically.

Remark

None.

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5. Fire-fighting measures**5.1 Suitable extinguishing media**

Water spray jet, powder, carbon dioxide, foam.

5.2 Extinguishing media which must not be used for safety reasons

Full water jet.

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In the event of fire the following can be released: carbon monoxide, carbon dioxide.

5.4 Special protective equipment for firefighters

Use self-contained breathing apparatus.

5.5 Further information

None.

6. Accidental release measures**6.1 Personal precautions** (see also point 8., Personal protective equipment)

Avoid liberation of fiber dust. Ensure adequate ventilation.

6.2 Environmental precautions (see also point 13., Disposal considerations)

No special measures necessary if used correctly.

6.3 Methods for cleaning/taking up

Pick up mechanically. Avoid formation of fiber dust.

6.4 Additional information

None.

7. Handling and storage (National measures see points 15. and 16.)**7.1 Handling****Advice on safe handling**

Avoid formation of fiber dust. If necessary, provide local exhaust ventilation.

Advice on protection against fire and explosion

No special measures necessary.

Additional advice on system design

In case of dust formation exhaust ventilation at the object (initiation point) is necessary.

7.2 Storage**Requirements for storage rooms and vessels**

No special measures necessary.

Advice on storage compatibility

None.

Further information on storage conditions

Protect from moisture.

Storage class (for Germany only)

11 (flammable solids).

7.3 Specific use(s)

No information about specific uses available.

8. Exposure controls / personal protection**8.1 Exposure limit values (for Germany only)**

CAS number	identification	threshold limit	remarks
n.ap.	fiber dust, no limited evidence of a carcinogenic effect	6 mg/m ³ *	general threshold limit of dust
		alveolar fraction 3 mg/m ³	general threshold limit of dust
		alveolar fraction (in general) 10 mg/m ³ **	general threshold limit of dust
		respirable fraction (in general) exceeding factor 4 (see also no. 2.3 of TRGS 900)	

* threshold limit for particular activities/working areas in accordance with no. 2.4 sections 8, 9 TRGS 900 (amendment 09/01)

** notice: threshold limit from 01 April 2004 (in conjunction with no. 2.4 section 11 TRGS 900) (amendment 09/01)

Remark: In case of formation of fiber dust during processing and treatment, the threshold limit must be observed.

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8.2 Exposure controls (Occupational exposure controls / Environmental exposure controls)

See point 7. In case of dust formation exhaust ventilation at the object (initiation point) is necessary.

Personal protective equipment**Respiratory protection**

Particle filter half mask FFP1 or half-/quarter-mask (particle filter P1)
 in case of fiber dust liberation.

Hand protection

Work gloves of chromium-free leather or
 nitrile impregnated cotton gloves.

Eye protection

Safety glasses in case of fiber dust liberation

Body protection

Work clothing.

General protective measures and hygiene measures

Avoid contact with eyes and skin.

Wash hands before breaks and after work; apply skin cream.

9. Physical and chemical properties**9.1 General information**

Physical state: solid

Colour: n.av.

Odour: odourless

9.2 Important health, safety and environmental information

pH:

n.ap.

Melting point / melting range (°C):

1250

Softening point (°C): 840

Density (g/cm³) (20°C):

2.6

Solubility in water: insoluble

9.3 Other information

None.

10. Stability and reactivity**10.1 Conditions to avoid / materials to avoid**

No particular conditions and materials known.

10.2 Hazardous decomposition products

No hazardous decomposition products known if used as prescribed.

10.3 Additional information

None.

11. Toxicological information**11.1 Toxicological examination****11.1.1 Acute oral toxicity / acute dermal toxicity / acute inhalation toxicity**

LD50 rat, oral (mg/kg) n.av.

LD50 rat, dermal (mg/kg) n.av.

LC50 rat, inhalation (mg/l/4h) n.av.

11.1.2 Irritant effect

Irritant effect on skin n.av.

Irritant effect on eyes n.av.

Sensitisation n.av.

11.1.3 Subacute toxicity / Sub-chronic toxicity / Chronic toxicity / Mutagenicity / Teratogenicity / Carcinogenicity

Carcinogenicity: n.av.

Mutagenicity: n.av.

Teratogenicity: n.av.

Chronic effect: n.av.

11.1.4 Further information

The glass fibers used in the product do not correspond to the WHO-definition and therefore they are not classified as carcinogenic.

11.2 Experiences made in practice

Temporary reversible symptoms after mechanical effects of liberated fiber dust on the eyes, upper respiratory tract and skin cannot be ruled out.

11.3 General remarks

The product has not been tested.

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12. Ecological information**12.1 Ecotoxicity****Aquatic toxicity**

LC50 (fish) n.av.
 EC50 (daphnia) n.av.
 IC50 (algae) n.av.

Behaviour in sewage works:

Not to apply.

12.2 Mobility

The product has not been tested.

12.3 Data on elimination (persistence and degradability)

The product has not been tested.

12.4 Bioaccumulative potential

The product has not been tested.

12.5 Other adverse effects

Ozone depletion potential n.av.
 Photochemical ozone creation potential n.av.
 AOX-hint Not to apply.

12.6 Further information

Chemical oxygen demand (COD) n.av.
 Biochemical oxygen demand (BOD5) n.av.

Contains according to the formulation following heavy metals and compounds of EC-Directives 76/464/EEC and 80/68/EEC:

None.

13. Disposal considerations**13.1 Product / unused product**

Waste disposal corresponding to European Waste Catalogue.
 Wastes must be classified with respect to their origin and depending on specific processing steps. The waste codes mentioned as follows are only constituted as our recommendations. Referring to the particular case they should be completed or revised.

Waste type	Wastes from thermal processes
Waste notation	Wastes from manufacture of glass and glass products
EC waste code	10 11 03 waste glass-based fibrous material
Disposal operations	D 1 Deposit into or onto land (e.g. landfill, etc.)
Recovery operations	R 5 Recycling/reclamation of other inorganic materials

13.2 Contaminated packaging

Recommendation Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Recommended cleansing agent Remove adhering residues mechanically.

14. Transport information**14.1 Land transport ADR / RID / GGVSE**

No dangerous good in accordance with the regulations.

14.2 Marine transport IMDG-Code / GGVSee

No dangerous good in accordance with the regulations.

14.3 Air transport ICAO / IATA-DGR

No dangerous good in accordance with the regulation.

15. Regulatory information**15.1 Labelling in accordance with Directive EC**

Symbol(s) of danger: n.ap.
 Indication(s) of danger: n.ap.
 Hazardous component(s) to be indicated on label: n.ap.

R-phrases: n.ap.

S-phrases: n.ap.

Preparations not intended for the general public (the label on the packaging must bear the following inscription):
 “Safety data sheet available for professional user on request.”

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Remarks: None.

15.2 National measures (for Germany only)

Restriction of occupation: n.ap.
 Major-accident regulation: n.ap.
 Fire and explosion hazards: n.ap.
 Regulation on clean air (TA Luft): point 5.2.1 (exhaust stream in case of liberation of dust during processing and treatment)

Water hazard class: not hazardous to water according to VwVwS

German Ordinance on Hazardous Substances (in accordance with EC-Directive 98/24/EC): Articles 7, 8, 9, 14
 Articles 15, 16, Annex III No 2, Annex V No 1 (in case of liberation of dust during processing and treatment)

16. Other information

16.1 Keeping (restrictions) n.ap.
Distribution for industry consumer, for the general public

16.2 Full text of the R-phrases
 Not to apply.

16.3 Technical contact point
 KNAUF USG Systems GmbH & Co. KG, Zur Helle 11, D-58638 Iserlohn
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Revised sections: 2., 2.2, 3.2, 4.3, 4.4, 6.2, 7.1, 8.1, 8.2, 11.1.4, 11.2, 15.1, 15.2

16.4 This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products as described or their suitability for a particular application.