

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[®] Joint Filler - grey**

Recommended use **joint filling agent**

Substance code **60008**

1.2 Company/undertaking identification

KNAUF USG Systems GmbH & Co. KG

Zur Helle 11

D-58638 Iserlohn

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

Fax: 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 preparation. It is a dry mortar based on special cements (low in chromate), loading material (quartz sand, limestone flour), cellulose ether and polyvinyl acetate copolymers.

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
65997-15-1	266-043-4	Portland cement clinker	< 20	Xi	36/38

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.)

No substances.

2.3 Additional information

The type of the Portland cement mentioned above in section 2.1 is low in chromate in accordance with TRGS 613.

3. Hazards identification

3.1 Hazards identification

No special hazards have to be mentioned.

3.2 Critical hazards to man

Frequent persistent contact with the skin can cause skin irritation.

Irritant effect on eyes cannot be ruled out.

3.3 Critical hazards to the environment

The product is weakly hazardous to water. In case of ingress of water formation of a strong alkaline solution.

4. First aid measures

4.1 General information

Remove soiled clothing immediately.

4.2 after inhalation

Take affected person to fresh air.

By continuous complaints seek medical advice.

4.3 after contact with skin

In case of contact with skin wash off immediately with plenty of water.

By continuous complaints seek medical advice.

4.4 after contact with eyes

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

4.5 after ingestion

Do not induce vomiting. Take medical treatment.

4.6 Hints for the physician

Symptoms n.av.

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Hazards Irritant effect on skin and eyes.
Treatment Treat symptomatically.
Remark Emergency eyewash should be available in vicinity.

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

Product itself is non-combustible. Fire extinguishing method of surrounding areas must be discussed.

5.2 Extinguishing media which must not be used for safety reasons

Product itself is non-combustible. Fire extinguishing method of surrounding areas must be discussed.

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

No particular hazards known.

5.4 Special protective equipment for firefighters

Use self-contained breathing apparatus in dust-laden atmosphere.

5.5 Further information

Collect contaminated firefighting water separately (strong alkaline solution) and dispose of in accordance with the local regulations.

6. Accidental release measures**6.1 Personal precautions**

(see also point 8., Personal protective equipment)

Avoid dust formation. Use personal protective clothing.

6.2 Environmental precautions

(see also point 13., Disposal considerations)

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods for cleaning up / taking up

Keep away from water. Pick up mechanically. Avoid raising dust.

Dispose of absorbed material in accordance with the regulations.

6.4 Additional information

After contact with water product is setting up.

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

Avoid formation of dust. Provide good ventilation of working area (local exhaust ventilation if necessary).

Keep sampling device dry.

Use only alkali-proof equipment (alkaline reaction after water supply).

Avoid contact with skin and eyes.

Advice on protection against fire and explosion

No special measures necessary.

Additional advice on system design

No additional advice.

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

Keep in the original container and tightly closed.

Advice on storage compatibility

Do not store together with acids.

Further information on storage conditions

Store in a dry place. Protect from wetness.

Storage class (for Germany only)

13 (non-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	Limit values	Remarks
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65997-15-1	Portland cement (dust)	5 mg/m ³ E MAK	respirable fraction; DFG TRGS 900
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8.2 Exposure controls (Occupational exposure controls / Environmental exposure controls)

See section 7.

Personal protective equipment

Respiratory protection

In dust-laden atmosphere: breathing apparatus with particle filter P2.

Hand protection

Cotton gloves (nitrile-coated) marked with a CE sign.

Suitable gloves for the handling of products containing cement low in chromate (GISCODE: ZP-1) in accordance with GISBAU (Information system of the the German professional associations for building and construction industry):

- Ansell: Hylite 47-400, Solknit 39-112 and 39124 respectively
- COMASEC: Flexitop, Comanett, Flexitri/PC, Fleximax 27 and 35 respectively
- KCL: Sahara
- MAPA: Stansolv AK 22, Duo-Mix 405
- Marigold: N660 or G25G
- PROFAS: Profi Ergo, Contact Ergo

Eye protection

Tightly fitting safety glasses (in case of dust formation and splashing).

Body protection

Work clothing (complete).

General protective measures and hygiene measures

Do not inhale dust. Avoid contact with eyes and skin. Remove soiled clothing immediately.

At work do not eat, drink, smoke or take drugs. After work use barrier skin cream.

After worktime and before breaks the affected skin areas must be thoroughly cleaned.

9. Physical and chemical properties

9.1 General information

Physical state: powder

Colour: grey

Odour: odourless

9.2 Important health, safety and environmental information

pH (as supplied): n.ap. (of an aqueous solution) (20°C): approx. 12
 Boiling point / boiling range (°C): n.ap.
 Melting point / melting range (°C): n.av.
 Thermal decomposition (°C): from approx. 150
 Flash point (°C), c.c.: n.ap.
 Flammability: n.ap.
 Ignition temperature (°C): n.ap.
 Autoflammability: n.ap.
 Oxidising properties: n.ap.
 Lower explosion limit: n.ap. Upper explosion limit: n.ap.
 Vapour pressure: n.ap.
 Bulk density (kg/m³): approx. 1250
 Solubility in water (at 20°C): approx. 1.5%
 Soluble in: n.av.

9.3 Other information

None.

10. Stability and reactivity

10.1 Conditions to avoid / materials to avoid

Avoid influence of moisture before processing.

Avoid contact with acids.

10.2 Hazardous decomposition products

No hazardous decomposition products known.

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.

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	LD50 rat, dermal	(mg/kg)	n.av.
	LC50 rat, inhalation	(mg/l/4h)	n.av.
11.1.2	<i>Irritant effect</i>		
	Irritant effect on skin		n.av.
	Irritant effect on eyes		n.av.
	Sensitisation		n.av.
11.1.3	<i>Subacute toxicity / Sub-chronic toxicity / Chronic toxicity / Mutagenicity / Teratogenicity / Carcinogenicity</i>		
	Carcinogenicity:		n.av.
	Mutagenicity:		n.av.
	Teratogenicity:		n.av.
	Chronic effect:		see point 11.2
11.1.4	<i>Further information</i>		
	No toxicological data available.		
11.2	<i>Experiences made in practice</i>		
	The product contains cement low in chromate with a content of chromate less than 2 ppm (soluble chromium) related to the cement portion.		
	There is only a very little risk to fall ill with bricklayer's itch. Yet a sensitisation by skin contact cannot be ruled out for persons who are very sensitive.		
	Frequent persistent contact with the skin can cause skin irritation.		
	Irritant effect on eyes cannot be ruled out.		
11.3	<i>General remarks</i>		
	The product has not been tested.		

12. Ecological information

12.1 Ecotoxicity

Aquatic toxicity

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

Behaviour in sewage works:

Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

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.

In case of ingress of water formation of a strongly alkaline solution. Increase of pH-value possible after release of large amounts into the aquatic environment.

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

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		should be completed or revised.
Waste type		Wastes from thermal processes
Waste notation		Wastes from manufacture of cement, lime and plaster and articles and products made from them
EC waste code		10 13 06 particulates and dust (except 10 13 12 and 10 13 13) alternatively
Waste type		Construction and demolition wastes
Waste notation		Concrete, bricks, tiles and ceramics
EC waste code		17 01 01 concrete
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. Packaging that cannot be cleaned should be disposed off as product waste.
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.

Special labelling for certain preparations:

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.”**

Remarks: The attention to the following safety advices is recommended:

- Keep out of the reach of children.
- Do not breathe dust.
- Avoid contact with skin and eyes.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Wear suitable gloves.
- If swallowed, seek medical advice immediately and show this container or label.

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
Water hazard class:	1 (calculation according to KBwS)

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German Ordinance on Hazardous Substances
(in accordance with EC-Directive 98/24/EC):

The Federal State Enactment for Facilities to Handle
Water Endangering Substances (German VAWS-
Anlagen-Verordnung) has to be observed

Articles 7, 8, 9, 14, 15, 16, Annex III No 2,
Annex V No 1

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 (Portland cement clinker)

R36/38: Irritating to eyes and skin.

16.3 Technical contact point

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Version 0005: replacement of version 0004 dated 28.05.2004

Revised sections: 8.2, 13.1, 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.