

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 Basecoat**

Recommended use **basecoat**

Substance code **60009**

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 cement, chalk lime, mineral binding agents and loading material.

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
1305-62-0	215-137-3	calcium hydroxide	5 – < 10	Xi	41
68475-76-3	270-659-9	Portland cement	>10 - < 20	Xi	38-41-43

The product requires a hazard warning label in accordance with EC directives/German regulations on dangerous substances (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 preparation is low in chromate in accordance with TRGS 613. The content of soluble chromate of the preparation is lower than 2 ppm. For this reason the sensitising properties (R43) of the Portland cement mentioned above under point 2.1 does not result in a product classification as sensitising.

An exposure limit value of Portland cement (CAS-number 65997-15-1) is mentioned in the TRGS 900.

3. Hazards identification

3.1 Hazards identification

Irritant.

3.2 Critical hazards to man

Risk of serious damage to eyes.

Frequent persistent contact with the skin can cause skin irritation.

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

Ensure supply of 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

Trade name: AQUAPANEL® Exterior Basecoat
 Company/Undertaking: KNAUF USG Systems GmbH & Co. KG
 Zur Helle 11, D-58638 Iserlohn
 Telephone: int+49-(0)2374-5036-0

Date of issue: 31.05.2005

Do not induce vomiting. Let plenty of water be drunk in small gulps.
 Take medical treatment immediately.

4.6 Hints for the physician

Symptoms n.av.
Hazards Risk of serious damage to eyes. Risk of irritation of mucous membrane and skin.
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

Pick up mechanically. Avoid raising dust.
 Dispose of absorbed material in accordance with the regulations.

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 dust. Provide exhaust ventilation if dust is formed.
 Keep sampling equipment dry.
 Use only alkali-proof equipment (alkaline reaction after water supply).

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 container tightly closed in a well-ventilated place.

Advice on storage compatibility

Do not store together with acids. Store apart from oxidising agents and explosible agents.

Further information on storage conditions

Protect from moisture and water. Store in a dry place.

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
------------	----------------	--------------	---------

Trade name: AQUAPANEL® Exterior Basecoat
 Company/Undertaking: KNAUF USG Systems GmbH & Co. KG
 Zur Helle 11, D-58638 Iserlohn
 Telephone: int+49-(0)2374-5036-0

Date of issue: 31.05.2005

65997-15-1	Portland cement (dust)	5 mg/m ³ E MAK	respirable fraction; DFG TRGS 900
1305-62-0	calcium hydroxide	5mg/m ³ E MAK	respirable fraction; EU TRGS 900

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

See point 7.

Personal protective equipment

Respiratory protection

In dust-laden atmosphere: particle filter half mask or particle filter P2-P3.

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, Flexitritl/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.

Clean skin thoroughly after work and before breaks. After work use barrier skin cream.

9. Physical and chemical properties

9.1 General information

Physical state: powder **Colour:** cement-grey **Odour:** odourless

9.2 Important health, safety and environmental information

pH (as supplied): n.ap. (of an aqueous solution) (20°C): 11.5 - 13
 Boiling point / boiling range (°C): n.av.
 Melting point / melting range (°C): n.av.
 Thermal decomposition (°C): n.av.
 Flash point (°C), c.c.: n.ap.
 Flammability: n.av.
 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 (g/cm³) (20°C): 0.9 – 1.5
 Solubility in water (at 20°C): 1650 mg/l (calcium hydroxide)
 Soluble in: n.av.

9.3 Other information

None.

10. Stability and reactivity

10.1 Conditions to avoid / materials to avoid

Strong alkaline reaction with water. Avoid influence of moisture. 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.

Trade name:	AQUAPANEL® Exterior Basecoat	
Company/Undertaking:	KNAUF USG Systems GmbH & Co. KG	Date of issue: 31.05.2005
	Zur Helle 11, D-58638 Iserlohn	
Telephone:	int+49-(0)2374-5036-0	

- | | | |
|----------------------|-----------|-------|
| 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: | see section 11.2 |
- 11.1.4 Further information**
- No toxicological data available.
- 11.2 Experiences made in practice**
- Risk of serious damage to eyes.
The preparation is low in chromate in accordance with TRGS 613.
The content of water-soluble chromate of products reduced in chromate concentration is less than 2 ppm 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.
- 11.3 General remarks**
- The product has not been tested.
The product was classified on the basis of the calculation procedure of the preparation directive 1999/45/EC.
Labelling on the basis of the components Portland cement and calcium hydroxide.

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

Trade name:	AQUAPANEL® Exterior Basecoat	
Company/Undertaking:	KNAUF USG Systems GmbH & Co. KG	
	Zur Helle 11, D-58638 Iserlohn	Date of issue: 31.05.2005
Telephone:	int+49-(0)2374-5036-0	

	should be completed or revised.
Waste type	Construction and demolition wastes
Waste notation	Concrete, bricks, tiles and ceramics
EC waste code	17 01 06 mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing dangerous substances
Disposal operations	D 5 Specially engineered landfill
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	Water. Hardened material can only be removed 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: **Xi**

Indication(s) of danger: Irritant

Hazardous component(s) to be indicated on label:

R-phrases: R41 Risk of serious damage to eyes.

S-phrases: S2 Keep out of the reach of children.

S22 Do not breathe dust.

S24 Avoid contact with skin.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39 Wear suitable gloves and eye/face protection.

S46 If swallowed, seek medical advice immediately and show this container or label.

Special labelling for certain preparations: n.ap.

Remark:

According to Article 9 paragraph 1.2 of Directive 1999/45/EC containers do not have either a shape and/or graphic decoration likely to attract or arouse the active curiosity of children or to mislead consumers.

15.2 National measures (for Germany only)

Restriction of occupation: Youth Employment Protection Act must be observed.

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)

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

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

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

16. Other information**16.1 Keeping (restrictions)**

Article 8 (6) and (7) of the German Ordinance on Hazardous Substances has to be observed
(only for Germany)

Distribution

For industry consumer, for the general public

16.2 Full text of the R-phrases

Trade name:	AQUAPANEL® Exterior Basecoat	
Company/Undertaking:	KNAUF USG Systems GmbH & Co. KG	
	Zur Helle 11, D-58638 Iserlohn	Date of issue: 31.05.2005
Telephone:	int+49-(0)2374-5036-0	

R38: Irritating to skin.
R41: Risk of serious damage to eyes.
R43: May cause sensitisation by skin contact.

16.3 Technical contact point

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

Version 0005: replacement of version 0004 dated 28.05.2004

Revised sections: 8.2, 13.1, 15.2, 16.1

- 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.