

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 Primer**

Recommended use **primer**

Substance code **60036**

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 mixture of titanium dioxide, plastics dispersion and water.

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.)

No substances.

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

Persistent or repeated contact with the skin may lead to skin defatting and to skin which becomes easily inflamed (contact dermatitis). Resorption of product cannot be ruled out.

3.3 Critical hazards to the environment

The product is classified as weakly hazardous to water.

4. First aid measures

4.1 General information

Remove contaminated, soaked clothing immediately.

4.2 after inhalation

Take affected person to fresh air.

4.3 after contact with skin

In case of contact with skin wash off immediately with soap and water.

Do not wash with solvents or diluting agent. By continuous complaints seek medical advice.

4.4 after contact with eyes

In case of contact with eyes rinse immediately for at least 10 minutes 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.

Hazards Risk of dermatitis.

Treatment Treat symptomatically.

Remark None.

5. Fire-fighting measures

Trade name: AQUAPANEL® Exterior Primer
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

5.1 Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, dry powder, water mist.

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 dioxide, carbon monoxide, nitrogen oxides.

5.4 Special protective equipment for firefighters

Do not inhale explosion and/or combustion gases.

Use breathing apparatus.

5.5 Further information

Collect contaminated firefighting water separately, must not be discharged into the drains.

Cool endangered containers with water spray jet.

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

(see also point 8., Personal protective equipment)

Ensure adequate ventilation.

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

Take up with absorbent material (e.g. sand, earth, vermiculite, kieselguhr).

Send in suitable containers for recovery or disposal.

Clean contaminated floors and objects thoroughly with detergents, do not use solvents.

6.4 Additional information

None.

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

Provide adequate ventilation or exhaust ventilation.

Observe the usual precautions for handling chemicals.

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.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Advice on storage compatibility

No special measures necessary.

Further information on storage conditions

Keep only in the original container in a dry, well ventilated place.

Recommended storage temperature: 5 - 30 °C.

Protect from heat and direct sunlight.

Storage class (for Germany only)

12 (non-flammable liquid).

7.3 Specific use(s)

No information about specific uses available.

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

Trade name: AQUAPANEL® Exterior Primer
 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

CAS number	Identification	Limit values	Remarks
n.ap.	n.ap.	n.ap.	n.ap.

Remark: § 9 (8) German Ordinance on Hazardous Substances must be observed

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

See point 7.

Personal protective equipment

Respiratory protection

In case of spraying, higher concentrations and if ventilation insufficient, use a respiratory protection apparatus with respiration filter.

Hand protection

Protective gloves made of natural rubber latex, neoprene, nitrile, PVC, fluorinated rubber, butyl rubber.

A list of models of suitable protective gloves for handling this product can be found under GISCODE M-GP01 (primer, pigmented, water-dilutable) in accordance with GISBAU (Information system of the German professional associations for building and construction industry).

Eye protection

Safety glasses.

Body protection

Light protective clothing.

General protective measures and hygiene measures

Avoid contact with eyes and skin. Remove contaminated, soaked clothing immediately.

At work do not eat, drink, smoke or take drugs.

Clean skin thoroughly after work and before breaks; apply skin cream. Use barrier skin cream.

9. Physical and chemical properties

9.1 General information

Physical state: liquid **Colour:** white **Odour:** n.av.

9.2 Important health, safety and environmental information

pH (as supplied):	n.av.	(of an aqueous solution) (20°C):	n.av.
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.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.		
Density (g/cm ³) (20°C):	1.06 (DIN 53217)		
Solubility in water (at 20°C):	completely miscible		
Soluble in:	n.av.		
Viscosity (s) (20°C):	20-30 (DIN 53211, 4 mm)		
Solvent separation test:	< 3%		
Solvent content:	1.9%		

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

At higher temperatures formation of carbon dioxide, carbon monoxide, fume and nitrogen oxides.

10.3 Additional information

None.

11. Toxicological information

11.1 Toxicological examination

11.1.1 Acute oral toxicity / acute dermal toxicity / acute inhalation toxicity

Trade name: AQUAPANEL® Exterior Primer
 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

	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		
	No toxicological data available.		
11.2	Experiences made in practice		
	Persistent or repeated contact with the skin may lead to skin defatting and to skin which becomes easily inflamed (contact dermatitis). Resorption of product cannot be ruled out.		
11.3	General remarks		
	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:

The product has not been tested.

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.

The product is classified as weakly hazardous to water.

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

Trade name:	AQUAPANEL® Exterior Primer	
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	

Waste type	constituted as our recommendations. Referring to the particular case they should be completed or revised.	
Waste notation	Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks	
EC waste code	Wastes from MFSU and removal of paint and varnish	
Waste type (hardened paints)	08 01 20 aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19	
Waste notation	Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks	
EC waste code	Wastes from MFSU and removal of paint and varnish	
Disposal operations	D 10	Incineration on land
Recovery operations	R 3	Recycling/reclamation of organic substances which are not used as solvents
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	Packaging that cannot be cleaned should be disposed off as product waste. n.av.	

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: | n.ap. |
- Remarks:**
The normal safety precautions for handling of chemicals must be observed.
- 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): | n.ap. |
| Water hazard class: | I (self-classification according to annex 4, no. 3 VwVwS)
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 |

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.

Trade name: AQUAPANEL® Exterior Primer
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

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: 8.1, 8.2, 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.