

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830

**JANSEN** 

Article No.: 40-5-1  
Print date: 20.10.2021  
Version: 33.72

2K-Markierungsfarbe  
Revision date: 20.05.2021  
Issue date: 20.05.2021

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Article No. (manufacturer/supplier): 40-5-1  
Trade name/designation: 2K-Markierungsfarbe  
weiß  
seidenglänzend

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Relevant identified uses**

2 component epoxy coating; use only in conjunction with hardener

**Uses advised against**

Aware of any other information

**1.3. Details of the supplier of the safety data sheet**

**Supplier (manufacturer/importer/only representative/downstream user/distributor)**

P.A. Jansen GmbH u. Co., KG

Hochstadenstraße 22

D-53474 Bad Neuenahr-Ahrweiler

Telephone: +49 2641 3897-0

Telefax: +49 2641 3897-28

Homepage: www.jansen.de

**Department responsible for information:**

laboratory

E-mail (competent person)

sicherheitsdatenblatt@jansen.de

**1.4. Emergency telephone number**

Emergency telephone number

+49 2641 3897-51

Only available during office hours.

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Skin Irrit. 2 / H315

Skin corrosion/irritation

Causes skin irritation.

Eye Dam. 1 / H318

Serious eye damage/eye irritation

Causes serious eye damage.

**2.2. Label elements**

The product is classified and labelled according to EC directives or corresponding national laws.

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms**



**Danger**

**Hazard statements**

H315

Causes skin irritation.

H318

Causes serious eye damage.

**Precautionary statements**

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P280

Wear protective gloves and eye/face protection.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call a POISON CENTER or doctor/ physician.

**Hazard components for labelling**

Modified Polyaminoamide

**Supplemental hazard information**

EUH211

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

**2.3. Other hazards**

No information available.

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### SECTION 3: Composition / information on ingredients

#### 3.2. Mixtures \*

**Description** 2-components floor coating water-dilutable

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

EC No. CAS No. Index No.	REACH No. Designation classification: // Remark	weight-%
236-675-5 13463-67-7 022-006-00-2	01-2119489379-17 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] Carc. 2 H351	20 - 25
68915-81-1	Modified Polyaminoamide Skin Irrit. 2 H315 / Eye Dam. 1 H318	10 - 12,5
201-074-9 77-99-6	01-2119486799-10 Propylidyntrimethanol Repr. 2 H361fd	0,1 - 0,15

#### Additional information

Full text of classification: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

##### In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

##### Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

##### After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

##### Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

#### 4.2. Most important symptoms and effects, both acute and delayed

In all cases of doubt, or when symptoms persist, seek medical advice.

#### 4.3. Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

##### Unsuitable extinguishing media

strong water jet

#### 5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

#### 5.3. Advice for firefighters

Provide a conveniently located respiratory protective device.

##### Additional information

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground

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or waterways.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

### 6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

### 6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advices on safe handling

The usual precautionary measures for handling chemicals should be observed.

#### Further information

No special measures are required.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

No special measures are required. Keep container tightly closed. Store carefully closed containers upright to prevent any leaks.

#### Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

#### Further information on storage conditions

Keep away from frost! Keep only in the original container in a cool, well-ventilated place. Take care of instructions on label.

### 7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit values

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ]

Index No. 022-006-00-2 / EC No. 236-675-5 / CAS No. 13463-67-7

WEL, TWA: 4 mg/m<sup>3</sup>

Remark: (respirable fraction)

WEL, TWA: 10 mg/m<sup>3</sup>

Remark: (inhalable fraction)

Barium sulfate

EC No. 231-784-4 / CAS No. 7727-43-7

WEL, TWA: 10 mg/m<sup>3</sup>

Remark: (inhalable fraction)

WEL, TWA: 4 mg/m<sup>3</sup>

Remark: (respirable fraction)

#### Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

#### DNEL:

Barium sulfate

EC No. 231-784-4 / CAS No. 7727-43-7

\*

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DNEL long-term inhalative (local), Workers: 10 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 10 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 13000 mg/kg  
DNEL long-term inhalative (systemic), Consumer: 10 mg/m<sup>3</sup>  
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]  
Index No. 022-006-00-2 / EC No. 236-675-5 / CAS No. 13463-67-7  
DNEL long-term inhalative (local), Workers: 10 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 700 mg/kg  
Propylidynetrimethanol  
EC No. 201-074-9 / CAS No. 77-99-6  
DNEL long-term dermal (systemic), Workers: 0,94 mg/kg  
DNEL long-term inhalative (systemic), Workers: 3,3 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 0,34 mg/kg  
DNEL long-term dermal (systemic), Consumer: 0,34 mg/kg  
DNEL long-term inhalative (systemic), Consumer: 0,58 mg/m<sup>3</sup>

**PNEC:**

Barium sulfate  
EC No. 231-784-4 / CAS No. 7727-43-7  
PNEC aquatic, freshwater: 0,115 mg/L  
PNEC sediment, freshwater: 600,4 mg/kg  
PNEC, soil: 207,7 mg/kg  
PNEC sewage treatment plant (STP): 62,2 mg/L  
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]  
Index No. 022-006-00-2 / EC No. 236-675-5 / CAS No. 13463-67-7  
PNEC aquatic, freshwater: 0,184 mg/L  
PNEC aquatic, marine water: 0,0184 mg/L  
PNEC aquatic, intermittent release: 0,193 mg/L  
PNEC sediment, freshwater: 1000 mg/kg  
PNEC sediment, marine water: 100 mg/kg  
PNEC, soil: 100 mg/kg  
PNEC sewage treatment plant (STP): 100 mg/L

8.2. **Exposure controls**

Provide good ventilation.

**Personal protection equipment**

**Respiratory protection**

Recommended respiratory protection articles: Inadequately ventilated workplaces and spraying procedures are necessary. Fresh air mask or short-time work combination filter A2-P2 are recommended.

**Hand protection**

Wear protective gloves. Suitable material: NBR (Nitrile rubber)

**Eye/face protection**

Wear closely fitting protective glasses in case of splashes.

**Body protection**

No special measures are necessary.

**Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

**Environmental exposure controls**

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

**SECTION 9: Physical and chemical properties**

9.1. **Information on basic physical and chemical properties**

**Appearance:**

**Physical state:**

**Liquid**

**Colour:**

**refer to label**

**Odour:**

**mild**

**Odour threshold:**

**No data available**

**pH at 20 °C:**

**7 - 8 / 100,0 weight-%**

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<b>Melting point/freezing point:</b>	<b>No data available</b>
<b>Initial boiling point and boiling range:</b>	<b>100 °C</b> Source: Water
<b>Flash point:</b>	<b>No data available</b>
<b>Evaporation rate:</b>	<b>No data available</b>
<b>flammability</b>	
<b>Burning time:</b>	<b>No data available</b>
<b>Upper/lower flammability or explosive limits:</b>	
<b>Lower explosion limit:</b>	<b>0,8 Vol-%</b> Method: literature value
<b>Upper explosion limit:</b>	<b>No data available</b>
<b>Vapour pressure at 20 °C:</b>	<b>No data available</b>
<b>Vapour density:</b>	<b>No data available</b>
<b>Relative density:</b>	
<b>Density at 20 °C:</b>	<b>1,35 g/cm<sup>3</sup></b> Method: DIN 53217
<b>Solubility(ies):</b>	
<b>Water solubility at 20 °C:</b>	<b>partially soluble</b>
<b>Partition coefficient: n-octanol/water:</b>	<b>see section 12</b>
<b>Auto-ignition temperature:</b>	<b>No data available</b>
<b>Decomposition temperature:</b>	<b>No data available</b>
<b>Viscosity at °C:</b>	<b>thixotrop</b>
<b>Explosive properties:</b>	<b>No data available</b>
<b>Oxidising properties:</b>	<b>No data available</b>
9.2. <b>Other information</b>	
<b>Solid content:</b>	<b>45 weight-%</b>
<b>solvent content:</b>	
<b>Organic solvents:</b>	<b>0 weight-%</b>
<b>Water:</b>	<b>55 weight-%</b>

#### SECTION 10: Stability and reactivity

##### 10.1. Reactivity

No information available.

##### 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

##### 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

##### 10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

##### 10.5. Incompatible materials

not applicable

##### 10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

#### SECTION 11: Toxicological information

Classification according to Regulation (EC) No 1272/2008 [CLP]

No data on preparation itself available.

##### 11.1. Information on toxicological effects

###### Acute toxicity

Barium sulfate

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oral, LD50, Rat: > 5000 mg/kg  
Method: OECD 401

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

oral, LD50, Rat: > 5000 mg/kg  
Method: OECD 425

dermal, LD50, Rabbit: > 2000 mg/kg  
inhalative (dust and mist), LC50, Rat 3,43 - 5,09 mg/L (4 h)  
Method: OECD 403

Propylidynetrimethanol

oral, LD50, Rat: 14700 mg/kg

**Skin corrosion/irritation; Serious eye damage/eye irritation**

Causes skin irritation.

Causes serious eye damage.

**Respiratory or skin sensitisation**

Based on available data, the classification criteria are not met.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Based on available data, the classification criteria are not met.

**STOT-single exposure; STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Practical experience/human evidence**

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

**Overall Assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

**Remark**

There is no information available on the preparation itself . The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

**SECTION 12: Ecological information**

Classification according to Regulation (EC) No 1272/2008 [CLP]

There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

**12.1. Toxicity**

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): > 100 mg/L (96 h)

Daphnia toxicity, LC50, Daphnia magna: > 100 mg/L (48 h)

Algae toxicity, EC50, Pseudokirchneriella subcapitata: 16 mg/L (72 h)

Propylidynetrimethanol

Fish toxicity, LC50: > 1000 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 13000 mg/L (48 h)

Algae toxicity, EC50, Selenastrum capricornutum: > 1000 mg/L

Method: OECD 201

Bacteria toxicity, EC50 (3 h)

**Long-term Ecotoxicity**

Propylidynetrimethanol

Daphnia toxicity, NOEC, Daphnia magna (Big water flea): > 1000 mg/L (21 d)

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**12.2. Persistence and degradability**

Propylidynetrimethanol  
Biodegradation: 100 % (28 d)  
Method: OECD 302B  
Readily biodegradable (according to OECD criteria)

**12.3. Bioaccumulative potential**

Propylidynetrimethanol  
Partition coefficient n-octanol /water (log P O/W):: -0,47

**Bioconcentration factor (BCF)**

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]  
Bioconcentration factor (BCF), Oncorhynchus mykiss (Rainbow trout): 19 - 352

Propylidynetrimethanol  
Bioconcentration factor (BCF), Cyprinus carpio (Common Carp): < 17

**12.4. Mobility in soil**

Toxicological data are not available.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Appropriate disposal / Product Recommendation**

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

**List of proposed waste codes/waste designations in accordance with EWC**

080111\* Waste paint and varnish containing organic solvents or other dangerous substances  
\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

**Appropriate disposal / Package Recommendation**

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

**SECTION 14: Transport information**

**No dangerous good in sense of this transport regulation.**

**14.1. UN number**

No data available

**14.2. UN proper shipping name**

**14.3. Transport hazard class(es)**

No data available

**14.4. Packing group**

No data available

**14.5. Environmental hazards**

Land transport (ADR/RID) No data available

Marine pollutant No data available

**14.6. Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

**Further information**

**Land transport (ADR/RID)**



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tunnel restriction code -

**Sea transport (IMDG)**

EmS-No. No data available

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU legislation**

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]**

This product is not classified according to Directive 2012/18/EU.

**Directive 2004/42/EC on the limitation of emissions of volatile organic compounds**

VOC product category: (Cat. A/j) ; VOC limit value: 140 g/l

Maximum VOC content (g/L) of the product in a ready to use condition: 140

**National regulations**

**Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

**15.2. Chemical Safety Assessment**

**For the following substances of this mixture a chemical safety assessment has been carried out:**

EC No. CAS No.	Designation	REACH No.
236-675-5 13463-67-7	titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$ ]	01-2119489379-17
201-074-9 77-99-6	Propylidyntrimethanol	01-2119486799-10

**SECTION 16: Other information**

**Full text of classification in section 3:**

Carc. 2 / H351	Carcinogenicity	Suspected of causing cancer if inhaled.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Repr. 2 / H361fd	Reproductive toxicity	Suspected of damaging fertility. Suspected of damaging the unborn child.

**Classification procedure**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Skin Irrit. 2	Skin corrosion/irritation	Calculation method.
Eye Dam. 1	Serious eye damage/eye irritation	Calculation method.

**Abbreviations and acronyms**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization



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LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

**Data sources:**

Data arise from reference works and literature.

**Further information**

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

\* Data changed compared with the previous version