

Safety Data Sheet

according to regulation (EU) No. 1907/2006

Printing date: 06/23/2016

picovest royal Anmischflüssigkeit

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

1.1 Information on the product	Amorphous silica, aqueous colloidal solution
Trade name:	picovest royal Anmischflüssigkeit
1.2 Relevant identified uses of the substance/preparation and uses that are inadvisable	No further relevant information available
Application of the substance / the preparation	Dental investment material liquid (Auxiliary for dental technology)
1.3 Details about the supplier of the safety data sheet	
Manufacturer/Supplier:	
Company name:	picodent GmbH
Street:	Lüdenscheider Str. 24-26
City:	D-51688 Wipperfürth
Telephone:	+49 2267 6580-0
E-Mail:	picodent@picodent.de
Internet:	www.picodent.de
Department for information:	picodent GmbH Fax-No. +49 2267 6580-31 Telephone-No. +49 2267 6580-0
1.4 Emergency contact number: (07.30 am - 4.45 pm)	Telephone-No. +49 2267 6580-0 Telephone-No. +49 171 6126850

2. Hazards identification

2.1. Categorisation of the substance/preparation

Categorisation (REGULATION (EC) no. 1272/2008)	Not classed as a hazardous substance or preparation under Regulation (EC) no. 1272/2008.
Categorisation (67/548/EEC, 1999/45/EC)	Not classed as a hazardous substance or preparation under EC Directives 67/548/EEC and 1999/45/EC.

2.2. Labelling elements

Labelling (REGULATION (EC) no. 1272/2008)	Not classed as a hazardous substance or preparation under Regulation (EC) no. 1272/2008. Labelling in line with EC Directive (1999/45/EC) More information: The product is not subject to labelling under EC directives or other national laws.
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2.3. Other hazards

If handled and stored correctly, no hazardous reactions are known to occur. No PBT/vPvB assessment is available because a chemical safety assessment is not required/was not conducted.

3. Composition/information on ingredients

Chemical characterisation: aqueous solution of alkaline-stabilised colloidal silica

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4. First aid measures

4.1 Description of first aid measures

General notes:

No specific first aid measures required.

Upon inhalation:

If the substance is inhaled, make sure the person affected has plenty of fresh air. In the event of persistent symptoms, seek medical advice.

Upon skin contact:

Remove any contaminated clothing. Rinse with water.

Upon contact with the eyes:

Rinse with plenty of clean water. Remove contact lenses. Protect uninjured eye. Hold eye wide open when rinsing.

Upon swallowing:

Rinse the mouth with water and drink plenty of water. Never pour anything into the mouth of an unconscious person.

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

Symptoms

No known

Risks

No known

4.3. Indication of any immediate medical attention or special treatment needed

Treat symptomatically.

5. Fire-fighting measures

5.1. Extinguisher

Suitable extinguishants:

Fire extinguishing measures must be adapted to the environment.

5.2. Special hazards arising from the substance or mixture

**Special hazards in terms of fire-fighting/
chemical-specific hazards**

No specific hazards

5.3. Notes on fire extinguishing

Special protective equipment:

In case of fire, wear self-contained breathing apparatus.

Other information:

Apply standard measures for fires involving chemicals.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency measures:

Personal precautions:

No specific conditions.

6.2 Environmental precautions:

No specific environmental precautions required.

6.3 Methods and material for containment and cleaning up Cleaning/methods for containment:

Mop up with absorbent material (e.g. a cloth, non-woven material). Disposal in a suitable, closed container. If large quantities of the liquid are spilled, collect immediately using a scoop or vacuum.

6.4 Reference to other section Additional notes:

For personal protective equipment, see section 8.

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7. Handling and storage

7.1 Protective measures for safe handling

Notes on safe use:

For personal protective equipment, see section 8.
No specific notes on handling required.

Notes on fire and explosion precautions:

Standard measures to prevent fire.

7.2 Conditions for safe storage, including incompatibilities Requirements of storage rooms and containers:

Keep containers tightly closed and store them in a dry, well-ventilated place. Store in dark, closed containers made from a non-corrosive material.

Other information on storage conditions:

Do not freeze.

Notes on combined storage:

No specific incompatible products.

Storage class (SC):

Non-flammable liquids

Minimum storage temperature:

See below Avoid temperatures: 5 °C

Maximum storage temperature:

To ensure safety, store under 35 °C

Other information:

No decomposition if used and stored according to specifications.

7.3. Specific end applications

No specific end applications beyond the scope of those mentioned in Section 1 are currently known.

8. Exposure controls/personal protection

8.1. Parameters to be monitored

Components with limit values that require monitoring at the workplace

Substances	CAS no.	Value	Parameters to be monitored	Published	Basis	Type of exposure
Precipitated silica, amorphous	7631-86-9	Occupational exposure limit (OEL)	4 mg/m ³	2006-01-01	DE TRGS 900	Inhalable fraction

Other information:

DFG: Commission for the Investigation of Health Hazards of Chemical Compounds in the Workplace (MAK Commission)
2: Colloidal amorphous silica (7631-86-9), including pyrogenic silica, and wet-process silica (precipitated silica, silica gel).
Y: Provided that the occupational exposure limit and biological limit value are not exceeded, there is no risk to the reproductive system.

STEL: Short-term exposure limit

TWA: Time-weighted average

8.2. Limitation and monitoring of exposure

Process monitoring Effective extraction
Personal protective equipment, breathing apparatus:
Normally no personal breathing apparatus required.
PVC rubber gloves
Goggles
General standard workplace hygiene.

Hand protection:

Eye protection:

Hygiene measures:

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9. Physical and chemical properties

9.1. Details about fundamental physical and chemical properties

Appearance State:	Liquid
Colour:	White
Smell:	Odourless
Odour threshold:	No data available
Safety-relevant information:	pH: 9–10
Melting point/melting range:	Approx. 0 °C
Boiling point/boiling range:	Approx. 100 °C
Flash point:	N/A
Rate of evaporation:	No data available
Flammability (solid, gaseous):	This product is non-flammable.
Lower explosion limit:	N/A
Upper explosion limit:	N/A
Vapour pressure:	Approx. 23 hPa at 20 °C
Relative vapour density:	No data available
Relative density:	1,100–1,400 g/cm ³
Solubility in other solvents:	No data available
Water solubility:	Dispersible
Partition coefficient: n-octanol/water	N/A
Auto-ignition temperature:	N/A
Decomposition temperature:	No data available
Viscosity, dynamic:	< 20 mPa.s at 20 °C
Viscosity, kinematic:	No data available
Explosive properties:	Not explosive
Oxidising properties:	Not classed as oxidising in the event of fire

9.2. Other information No other physical or chemical information has been determined.

10. Stability and reactivity

10.1. Reactivity	Stable under normal conditions.
10.2. Chemical stability	Stable when stored under the conditions stated.
10.3. Possible dangerous reactions	Chemical stability and dangerous reactions: If used correctly, there are no dangerous reactions known.
10.4. Conditions to avoid	Prevent the solution from drying out because this can lead to the formation of dust.
10.5. Incompatible materials	Substances to be avoided: steel, aluminium, copper
10.6. Hazardous decomposition products	There are no known hazardous decomposition products.
Thermal decomposition:	No data available

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11. Toxicological information

Product information:

Overview of hazards inhalation:

May cause irritation in the airways.

Skin:

Causes minor skin irritations.

Eyes:

May cause eye irritations.

Swallowing:

May irritate the mucous membranes.

Evaluation of toxicity Further information:

The information provided is based on data from the components and toxicity of similar products.

11.1. Information about toxicological effects

Test results for acute oral toxicity:

LD50: > 5,000 mg/kg

Species: rat

The value was estimated based on similar products.

Sensitivity:

Did not result in any increased sensitivity in laboratory animals.

Method (Magnusson-Kligman): The value was estimated based on similar products.

Germ cell mutagenicity:

Genotoxicity in vitro:

Ames test negative, method: OECD Method 471 - bacterial reverse mutation assay. The value was estimated based on similar products.

Precipitated silica, amorphous Acute oral toxicity:

LD50: > 10,000 mg/kg Species: rat

12. Ecological information

Product information:

Evaluation of ecotoxicity Results of determining PBT properties:

This preparation does not contain any substance categorised as persistent, bioaccumulating or toxic (PBT). This preparation does not contain any substance categorised as very persistent or very bioaccumulating (vPvB).

Other environmental notes:

None

12.1. Toxicity

Test result for toxicity in fish:

LC 50: > 5,000 mg/l Exposure time: 96 hrs Species:

Danio rerio (zebrafish) The value was estimated based on similar products.

Toxicity in Daphnia and other aquatic invertebrates:

EC 50: 7,600 mg/l Exposure time: 48 hrs Species:

Ceriodaphnia dubia (water flea) The value was estimated based on similar products.

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Toxicity in algae:

NOEC 60 mg/l Exposure time: 48 hrs Species: Selenastrum capricornutum (green algae) The value was estimated based on similar products.

EC 50: 120 mg/l Exposure time: 48 hrs Species: Selenastrum capricornutum (green algae) The value was estimated based on similar products.

EC 10: 140 mg/l Exposure time: 48 hrs Species: Selenastrum capricornutum (green algae) The value was estimated based on similar products.

12.2. Persistence and degradability Biodegradability

N/A, inorganic

12.3. Bioaccumulation potential Bioaccumulation

Not expected

12.4. Mobility in the soil Mobility:

No test results. Under extraordinary circumstances, the substance may be transferred from the soil into the water.

Distribution between the environmental compartments:

Not expected to be introduced to the air.

12.5. Results of the PBT and vPvB assessment Determining the PBT and vPvB properties:

This preparation does not contain any substance categorised as persistent, bioaccumulating or toxic (PBT). This preparation does not contain any substance categorised as very persistent or very bioaccumulating (vPvB).

12.6. Other detrimental effects Biochemical oxygen demand (BOD):

No data available

13. Disposal considerations

13.1. Waste treatment practices Contaminated packaging:

Remove residual product. Empty containers should be taken to a recognised waste management facility for recycling or disposal.

14. Transport information

Not classed as hazardous goods according to transport regulations.

14.1. UN numbers:

ADR: Not hazardous
RID: Not hazardous
IMDG: Not hazardous
IATA: Not hazardous
ADN: Not hazardous

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14.2. Proper UN shipping name:

ADR: Not hazardous
RID: Not hazardous
IMDG: Not hazardous
IATA: Not hazardous
ADN: Not hazardous

14.3. Transport hazard category:

ADR: Not hazardous
RID: Not hazardous
IMDG: Not hazardous
IATA: Not hazardous
ADN: Not hazardous

14.4. Packaging group:

ADR: Not hazardous
RID: Not hazardous
IMDG: Not hazardous
IATA: Not hazardous
ADN: Not hazardous

14.5. Environmental hazards:

ADR: Not hazardous
RID: Not hazardous
IMDG: Not hazardous
IATA: Not hazardous
ADN: Not hazardous

14.6 Special precautions for the user

Not classed as hazardous goods according to transport regulations.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific to the substance or preparation

Hazardous Incident Ordinance:

Water hazard class:

96/82/EC Last updated 2003 Directive 96/82/EC does not apply
nwg Not hazardous to water Technical Instructions on Air Quality
Control [TA Luft]:

- Total dust emissions: N/A
- Inorganic particulate matter: N/A
- Vaporous or gaseous inorganic substances: N/A
- Organic substances: N/A
- Carcinogenic substances: N/A
- Mutagenic substances: N/A
- Toxicity for reproduction: N/A

Registration status

CH INV:

y (positive list) This formulation contains substances listed in the Swiss directory.

US.TSCA:

y (positive list) All chemical substances in this product are either listed on the TSCA inventory or have been exempted from the TSCA inventory.

DSL:

y (positive list) All components of this product appear in the Canadian DSL list.

AICS:

y (positive list) Appears on the list or fulfils its requirements.

NZIoC:

y (positive list) Appears on the list or fulfils its requirements.

ENCS:

y (positive list) Appears on the list or fulfils its requirements.

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ISHL: y (positive list) Appears on the list or fulfils its requirements.
KECI: y (positive list) Appears on the list or fulfils its requirements.
PICCS: y (positive list) Appears on the list or fulfils its requirements.
IECSC: y (positive list) Appears on the list or fulfils its requirements.

15.2 Chemical safety assessment

Precipitated silica, amorphous:

This substance does not require a chemical safety assessment (CSA).

16. Other information

Full text of the H-statements in sections 2 and 3.

Explanation of possible abbreviations in section 2 PBT:

PBT: Persistent, bioaccumulative and toxic.
vPvB: Very persistent and very bioaccumulative.
OEL: Occupational exposure limit.

Notification status explanation

CH INV Switzerland. New notified substances and declared preparations
US.TSCA United States TSCA Inventory
DSL Canadian Domestic Substances List (DSL)
AICS Australia Inventory of Chemical Substances (AICS)
NZIoC New Zealand. Inventory of Chemical Substances
ENCS Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL Japan. ISHL - Inventory of Chemical Substances (METI) KECI Korea. Korean Existing Chemicals Inventory (KECI)
PICCS Philippines Inventory of Chemicals and Chemical Substances (PICCS)
IECSC China. Inventory of Existing Chemical Substances in China (IECSC)

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Training

Employees must be informed of the silica content of the product and trained in its proper handling.