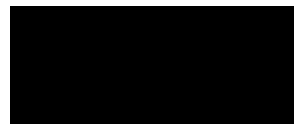


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1. Identification of the substance / preparation and of the company / undertaking

Trade name:
AntiVirus-Air

Address of the Company / Supplier:
Power Color International GmbH
Königspergerstr. 5
D-93426 Roding
Fon: +49 9461-402593
Mail: info@pc-int.de

Emergency phone No.: +49 6131 / 19240
(Poison information centre of the University
Clinic Mainz/Germany)

2. Composition / Information on Ingredients

Chemical characterization (preparation)

Photo catalytic titanium dioxide suspension with high efficiency, which is prepared by hydrothermal synthetic nano process.

Ingredient:

Registration	Content	CAS No.	EINECS
Water	>97%	7732-18-5	231-791-2
Titan (IV) -oxide	<2,5%	13463-67-7	236-675-5

Hazardous Ingredients

None

3. Hazards Identification

4. First Aid Measures

General information: Remove contaminated clothing.

Inhalation: Rinse nose, gargle with water, fresh air, and consult a doctor.

Skin Contact: Wash with soap and water after skin contact. This product is not skin irritating.

After eye contact: Rinse opened eye for several minutes under running water. Seek immediate medical attention.

Ingestion: Rinse mouth gargle drink, and plenty of water: after swallowing. If symptoms persist, seek medical advice.

5. Fire Fighting Measures

Product is not flammable.

Suitable extinguishing material

Fire fighting measures that suit the environment.

Special protective equipment for firefighters

Additional information

Collect contaminated firefighting water separately, must not enter drains.

6. Accidental Release Measures

Personal precautions

Avoid inhalation of the product.

Environmental protection measures

Keep out of drains, waterways and soil.

Methods for cleaning

Take up mechanically or with an absorbent material and place in closed containers for disposal. Suitable binder: sand (for damming up), wood flour or binder.

7. Handling and Storage

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Handling:

Information for safe handling:

Ensure good ventilation / exhaustion at the workplace. Product not breathe. Avoid contact with eyes.

Ensure compliance with all workplace limits / s (OEL) and / or other limits.

Information about fire and explosion protection: No special measures required.

Storage:

- **Requirements for storage rooms and containers:** No special legal provisions.
- **Common storage facility:** Not required
- **Further information about storage conditions:** Store dry and cool. The product must not be frozen.
Recommended storage temperature: 5-40 ° C.

8. Exposure Controls and Personal Protection

Additional information about design of technical systems: No further details, see Section 7

Components with critical values that require monitoring at the workplace:

Titanium (IV) oxide

MAK (Germany) 6 mg / m³, (Technical Rule 900)

Additional information:

Based on information valid at the time of compilation.

Personal protective equipment:

General protective and hygiene measures:

Avoid contact with eyes. Do not inhale the Product. Wash hands before breaks and after work. TiO₂ powder is not irritating the skin, but can, such as all fine powders, absorb moisture and fat. The wearing of protective gloves and clothing is subject to prolonged use.

Respiratory protection:

Necessary if maintained below about the OEL / s (AGW, MAK) and good ventilation, no special precautions.

Hand protection:

Protective gloves. The glove material has to be impermeable and resistant to the product.

9. Physical and Chemical Properties

Form:	Liquid
Colour:	Yellowish transparent
Odour:	weak
Boiling Point:	100°C
Flammability:	Not flammable
Explosion:	Not Explosive
Density (g / ml):	1.023 ± 1,025
Solubility:	Miscible with water and oil
pH-Value (undiluted)	6,5 – 8,5
Average primary particle size	<8 nm
Specific surface area (according to ISO 9277:1995)	160 ± 30 m ² /g
Pb-content (mg/l)	< 0.1
As-content (mg/l)	< 0.5
Hg-content (mg/l)	< 0.005

10. Stability and Reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used as directed.

Dangerous reactions: No dangerous reactions known.

Hazardous products of decomposition: No dangerous decomposition products known.

11. Toxicological Information

Acute toxicity:

Relevant for classification LD/LC50-values titanium dioxide:

Oral	LD50	> 20000 mg / kg (rat)
Dermal	LD50	> 10000 mg / kg (rabbit)
Inhalation	LC50/ 4 h	> 7 mg / l (rat)

Primary irritant effect:

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on the skin: -
on the eye: -
Sensitization: No sensitizing effects known.
Additional toxicological information:
When handled and used properly, the product has no harmful effects.

12. Ecological Information

General information:
Not hazardous to water (Point 1.2a and Annex I of VwVwS May 17 1999)

13. Disposal Considerations

Recommendation: Must not be disposed of with household waste. Do not empty into drains.
Waste code:
The waste key number according to the Waste Catalogue (EWC) depends on the waste producers and can therefore be different for a product. The waste key numbers from each waste producer to identify separately.
Recommendation: Disposal according to official regulations.

14. Transport Information

Land transport (ADR / RID/GGVSE)

ADR / RID Class: -
Hazard Number: -
Labels: -
Warning sign: -
UN No.: -
IADR / RID packing group: -

Inland waterway transport

ADN / ADNR: -

Marine transport

IMDG Class: -
Marine pollutant: No
IMDG packing group: -
number: -
EMS: -
label: -

Other marine transport: -

Air transport

ICAO / IATA Class: -
Labels: -
UN / ID-No. :

15. Regulatory Information

Marking (EC):
The substance is not subject to EC lists and other sources of literature.
Handle in accordance with good industrial hygiene and safety practice.

National regulations

Water hazard class: -
Hazardous Incident Ordinance: Fault Regulation, Annex: Not stated
Water hazard class: not hazardous for water (as specified in 1.2a and Annex I VwVwS of May 17, 1999), identification number: 1345

16. Other Information

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.