

# Safety Data Sheet

According to 1907/2006/EC, Article 31



Dieselstrasse 25  
D-73660 Urbach / Rems  
Telefon +49 7181 9854840  
Telefax +49 7181 98548422  
web.: www.wt-direct.de

## WT - Direct TITANIUM PROFESSIONAL PLUS DESIGN Paint

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

- **Product details/Trade name:** *Titanium Professional Plus Design Paint*
- **Application of the substance / the preparation** *For industrial use only*
- **Manufacturer/Supplier:** WT - Direct GmbH  
3-D Wassertransferdrucksysteme & Zubehör  
Dieselstraße 25  
D-73660 Urbach
- **Further information obtainable from:**
- Information in case of emergency:** +49-7181-9854840  
Telephone: +49-7181-9854840  
Telefax number: +49-7181-98559822  
E-Mail: info@wt-direct.de

### 2. Hazards identification

#### GHS Classification

Flammable liquid, Category 2 H225: Highly flammable liquid and vapour.  
Eye irritation, Category 2 H319: Causes serious eye irritation.  
Specific target organ toxicity - single exposure, Category 3 H336: May cause drowsiness or dizziness.

#### EC Classification

F; R11  
Xi; R36  
R67

For the full text of the R-phrases mentioned in this Section, see Section 16.

### 3. Composition/information of ingredients

Hazardous ingredients:

<b>Chemical characterization:*</b>	<b>CAS-Nr.</b>	<b>%</b>	<b>EG-number</b>	<b>Classification</b>
2-Propanol	67-63-0	> 70	200-661-7	Xi, R36 R 66

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### 4. First Aid Measures

After inhalation: fresh air. Consult doctor if feeling unwell  
After skin contact: wash off with plenty of water. Remove contaminated clothing.  
After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.  
After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit.

### 5. Fire-fighting measures

Suitable extinguishing media  
Carbon dioxide (CO<sub>2</sub>), Foam, Dry powder

Specific hazards during fire fighting  
Combustible material, Vapours are heavier than air and may spread along floors.  
Forms explosive mixtures with air at elevated temperatures.

Development of hazardous combustion gases or vapours possible in the event of fire.  
Special protective equipment for fire-fighters  
Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Further information  
Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

### 6. Accidental release measures

Personal precautions  
Avoid substance contact. Do not breathe vapours, aerosols. Ensure supply of fresh air in enclosed rooms. Ensure adequate ventilation.

Environmental precautions  
Do not empty into drains.

Methods for cleaning up  
Take up with liquid-absorbent material (e.g. Chemisorb®).  
Forward for disposal. Clean up affected area.

### 7. Handling and storage

#### Handling

Advice on safe handling  
Work under hood. Do not inhale substance. Avoid generation of vapours/aerosols.

Advice on protection against fire and explosion  
Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

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### Storage

Further information on storage conditions

Keep away from heat and sources of ignition. Keep container tightly closed in a dry and wellventilated place.

Store at +5°C to +30°C. Further information on storage conditions

Tightly closed. Dry. Protected from light.

### 8. Exposure controls/personal protection

#### Personal protective equipment

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier. Respiratory protection required when vapours/aerosols are generated.

Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds

#### Hand protection

full contact:

Glove material:	nitril-rubber
Glove thickness:	0,4 mm
Break through time:	> 480 min

splash contact:

Glove material:	polychloroprene
Glove thickness:	0,65 mm
Break through time:	> 120 min

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374, for example. KCL 730 Camatril® -Velours (full contact), KCL 720 Camapren® (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet and supplied by us as well as to the purpose specified by us. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Eye protection  
required

#### Protective measures

Flame retardant antistatic protective clothing

#### Hygiene measures

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance.

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### 9. Physical and chemical properties

Form	liquid
Colour	colourless
Odour	alkohol-like
pH	7
	at 20 °C
	(as aqueous solution)
Viscosity, dynamic	2,2 mPa.s
	at 20 °C
Melting point	< -89,4 °C
Boiling point/boiling range	82 °C
Ignition temperature	425 °C
	Methode: (DIN 51794)
Flash point	12 °C
Oxidizing properties	no data available
Flammability	no data available
Lower explosion limit	2 %(V)
Upper explosion limit	13,4 %(V)
Minimum ignition energy	0,65 mJ
Vapour pressure	43 hPa
	at 20 °C
Relative vapour density	2,07
Density	0,785g/cm <sup>3</sup>
	at 20 °C
Solubility/qualitative	no data available
Water solubility	at 20 °C
	soluble
Partition coefficient: n-octanol/water	log Pow: 0,05
	at 25 °C
	Method: OECD Test Guideline 107
	No bioaccumulation is to be expected (log Pow <1).
Evaporation rate	no data available

### 10. Stability and reactivity

Conditions to be avoided

Warming. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

Materials to avoid

Risk of ignition or formation of inflammable gases or vapors with:

Alkali metals, Alkaline earth metals, Aluminium, in powder form

Exothermic reaction with:

Oxidizing agents, Nitric acid, Aldehydes, Amines, fuming sulfuric acid, Iron

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Risk of explosion with:  
chlorates, Phosgene, organic nitro compounds, hydrogen peroxide, nitrogen oxides

Hazardous decomposition products  
no information available

Further information

hygroscopic

Solvent for:

oils, rubber

unsuitable working materials:

various plastics

Vapours may form explosive mixture with air.

### 11. Toxicological information

Acute oral toxicity

LDLO human

Dose: 3.570 mg/kg  
(RTECS)

LD50 rat

Dose: 5.045 mg/kg  
(RTECS)

Symptoms: Risk of aspiration upon vomiting., Aspiration may cause pulmonary oedema and pneumonitis.

Acute inhalation toxicity

LC50 rat

Dose: 46,5 mg/l, 4 h  
(External MSDS)

Symptoms: drowsiness, Drowsiness, Irritation symptoms in the respiratory tract.

Acute dermal toxicity

LD50 rabbit

Dose: 12.800 mg/kg  
(RTECS)

Eye irritation

rabbit

Result: Eye irritation  
(RTECS)

Causes serious eye irritation.

Sensitisation

Sensitization test: guinea pig

Result: negative  
(IUCLID)

Genotoxicity in vivo

Mutagenicity (mammal cell test): micronucleus.

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Result: negative  
(IUCLID)

Genotoxicity in vitro  
Ames test  
Result: negative  
(IUCLID)

Mutagenicity (mammal cell test): micronucleus.  
Result: negative

Carcinogenicity  
Did not show carcinogenic effects in animal experiments. (IUCLID)

Reproductive toxicity  
No impairment of reproductive performance in animal experiments. (IUCLID)

Teratogenicity  
Did not show teratogenic effects in animal experiments. (IUCLID)

Further information  
Systemic effects:

After absorption:  
Headache, Dizziness, inebriation, Unconsciousness, narcosis  
After uptake of large quantities:  
respiratory paralysis, Coma  
Further data:  
Handle in accordance with good industrial hygiene and safety practice.

## 12. Ecological information

Toxicity to fish  
LC50  
Species: Lepomis macrochirus (Bluegill sunfish)  
Dose: 1.400 mg/l  
Exposure time: 96 h  
(ECOTOX Database)

Toxicity to daphnia and other aquatic invertebrates.  
EC5  
Species: E.sulcatum  
Dose: 4.930 mg/l  
Exposure time: 72 h  
(maximum permissible toxic concentration) (Lit.)  
EC50  
Species: Daphnia magna (Water flea)  
Dose: 13.299 mg/l  
Exposure time: 48 h  
(IUCLID)

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Toxicity to algae

IC50

Species: *Desmodesmus subspicatus* (green algae)

Dose: > 1.000 mg/l

Exposure time: 72 h

(IUCLID)

Toxicity to bacteria

EC5

Species: *Pseudomonas putida*

Dose: 1.050 mg/l

Exposure time: 16 h

(Lit.)

### Persistence and degradability

Biodegradability

Result: Readily biodegradable.

95 %

Exposure time: 21 d

Method: OECD Test Guideline 301E

Theoretical oxygen demand (ThOD)

2.400 mg/g

(Lit.)

Ratio BOD/ThBOD                      BOD5 49 %  
(IUCLID)

Ratio COD/ThBOD                      96 %  
(Lit.)

Partition coefficient: n-octanol/water

log Pow: 0,05

Method: OECD Test Guideline 107

No bioaccumulation is to be expected (log Pow <1).

Additional ecological information

Do not allow to enter waters, waste water, or soil!

## 13. Disposal considerations

### Product

Chemicals must be disposed of in compliance with the respective national regulations.

### Packaging

The product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system..

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### 14. Transport Information

ADR/RID  
UN 1219 ISOPROPANOL, 3, II  
IATA  
UN 1219 ISOPROPANOL, 3, II  
IMDG  
UN 1219 ISOPROPANOL, 3, II  
EmS F-E S-D

The transport regulations re cited according to international regulations and in the form applicable in Germany. Possible national deviations in other countries are not considered.

### 15. Regulatory information

#### GHS-Labeling:

Hazard pictograms:



signal word:

Danger

#### Hazard statements

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

#### Precautionary statements

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233: Keep container tightly closed.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Labelling according to EC Directives

Symbol(s): F Highly flammable  
Xi Irritant

R-phrase(s): 11-36-67 Highly flammable. Irritating to eyes. Vapours may cause drowsiness and dizziness.

S-phrase(s): 7-16-24/25-26 Keep container tightly closed. Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

EC-No. 200-661-7 EC Label



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Reduced labelling ( $\leq 125$  ml)

Symbol(s): F                      Highly flammable  
                  Xi                      Irritant

National legislation

Storage class VCI:                      3 Flammable Liquids  
Major Accident Hazard                96/82/EC Update: 2003  
Legislation:                                Highly flammable  
    7b

Quantity 1: 5.000 t

Quantity 2: 50.000 t

Other regulations: Take note of Dir 94/33/EC on the protection of young people at work.

### National legislation

Storage class VCI: 10                    Combustible liquids not in Storage Class 3  
Major Accident Hazard:                96/82/EC Update: 2003  
Legislation                                Directive 96/82/EC does not apply

Other regulations:                        Take note of Dir 94/33/EC on the protection of young people at work. Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.

## 16. Other information

Full text of R-phrases referred to under sections 2 and 3

R11                    Highly flammable.  
R36                    Irritating to eyes.  
R67                    Vapours may cause drowsiness and dizziness

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.