

Safety Data Sheet

Zfx™ RAWDENS

Zfx™ Titanium G5


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Safety data sheet according to 91/155/EEC

1. Identification of substance and company

1.1 Trade name	Zfx™ Titanium G5
1.2 Application / preparation	Metal discs 98.5 Ø x 8 – 24.5 mm; used to produce crowns and bridges
1.3 Manufacturer	Zfx GmbH Kopernikusstr. 15, 85221 Dachau, Deutschland Tel.: +49 (0)8131 33 244 - 0, Fax: +49 (0)8131 33 244 – 10 info@zfx-dental.com, www.zfx-dental.com

CE 0123 

2. Hazards identification

2.1 Hazard designation for human an environment for men and environment	n.a.
2.2 Hazardous / non hazardous preparation	n.a.
2.3 Harmful effects to health and environment on abuse	n.a.
2.4 Other hazards based on material	n.a.

3. Composition/Data on components

Mixture of substances listed below with nonhazardous additions.

Chemical composition: Alloy	Chemical characterization:			
	Elemental formula	Rest	CAS-No.	EINECS
Titanium	Ti	~ 90 %	7440-32-6	231-142-3
Ferrum	Fe	0.13 %	7439-89-6	231-096-4
Aluminium	Al	6.0 %	7429-90-5	231-072-3
Vanadium	V	4.1 %	7440-62-2	7440-62-2
Oxygen	O	0.1 %	7782-44-7	231-956-9
Hydrogen	H	0.001 %	1333-74-0	215-605-7
Nitrogen	N	0.01 %	7727-37-9	231-783-9
Carbon	C	0.03 %	7440-44-0	231-153-3



Additional information:

The hazards in point 4 to 8 as well as 10 to 12 do not refer to the product itself, but to the dust released by processing.

4. First aid measures

4.1 General information	No special measures are required
4.2 After inhalation	Consult a physician
4.3 After skin contact	n.a.
4.4 After eye contact	If swarf get into your eyes, rinse open eye for several minutes under running water. If symptoms persist consult a physician.
4.5 After swallowing	In case of discomfort consult a physician
4.6 Information for physician	n.a.

5. Fire-fighting measures

No special measures are required. The product is resistant to fire and explosion.
Coordinate measures according to the ambience.

5.1 Suitable extinguishing media	n.a.
5.2 Not suitable extinguishing media	n.a.
5.3 Hazardous combustion products	n.a.
5.4 Special protection equipment	n.a.

6. Accidental release measures

6.1 Personal precautions	Common use of protective clothing, dust mask as well as dust extractor device
6.2 Environmental precautions	No special measures are required
6.3 Methods of cleaning	Absorption, sweep
6.4 Additional information	n.a.

7. Handling and storage

7.1 Handling	According to use instructions; To proper application no special measures required. Take care for sufficient extraction at work station.
7.2 Storage	No special measures required
7.3 Application	n.a.



8. Exposure controls / Personal protection

8.1 Exposure limits	n.a.
8.2 Limitation and monitoring to exposure	n.a.
8.3 Limitation and monitoring to exposure at work station	The product does not contain any substances subject to safety value monitoring at workstation. Do not eat, drink or smoke while you are working. Keep away from food and drinks.
8.4 Respiratory protection	Use a dust mask
8.5 Hand protection	Wear protective gloves
8.6 Eye protection	Wear protective glasses
8.7 Skin protection	Wear protective clothing
8.8 Limitation and monitoring to environmental exposure	n.a.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties	
Appearance	silver-grey
Aggregate state	solid
Odour	odourless
ph	n.a.
Boiling point	n.a.
Flash point	n.a.
Autoflammability	n.a.
Explosive properties	This product is not explosive
Oxidizing properties	n.a.
Vapor pressure	n.a.
Relative density	4.51 gr/cm ³ at 20°C
Solubility water / fat	Insoluble in water
Partition coefficient	n.a.
Viscosity	n.a.
Vapor density	n.a.
Evaporation rate	n.a.
9.2 Other data	Melting point at 1668°C

10. Stability and reactivity

8.5 Conditions to avoid	n.a.
8.6 Materials to avoid	n.a.
8.7 Hazardous decomposition products	n.a.

11. Toxicological information

The product does not create any harmful effect to the health if handled correctly and considered the intended use.

12. Ecological information

12.1 General information	Not hazardous to water
12.3 Ecotoxicity	none
12.3 Mobility	n.a.
12.4 Persistence / degradability	nondegradable
12.5 Bioaccumulation potential	n.a.
12.6 Other adverse effects	none

13. Disposal considerations

12.3 Suggestion	Contact waste processors for recycling information
12.4 European waste catalogue	12 01 04 non-ferrous metal dust and particles

14. Transport information

14.1 UN-number	n.a.
14.2 Class	n.a.
14.3 Correct identification of goods	Zfx™ Titanium G5
14.4 Packaging group	n.a.
14.5 Ocean harmful substances	n.a.
14.6 Other relevant information	none

15. Regulatory information

Subject to classification: This product is no subject to declaration according to EC rules



16. Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Zfx GmbH makes no express or implied warranty or guarantee as to the accuracy, reliability or completeness of the information. Persons receiving this information are encouraged by Zfx GmbH deliver the product to any other than the intended purpose. The user is responsible for compliance with all relevant legal requirements.

The product must be used by trained dental technicians who have knowledge of the proper use manner and can therefore be considered a misuse of responsibility.

n.a. = not applicable