

Via dell'Artigianato, 35/37/39 - 25039 Travagliato (BS) ITALIA - Tel. +39 030 6863251 - Fax +39 030 6863252

info@mesaitalia.it - sales@mesaitalia.it - www.mesaitalia.it

C.F./Partita IVA - VAT IT00623390176 - N° R.E.A. BS 205429

SAFETY DATA SHEET FAB Titanium G5

This Safety Data Sheet has been written in compliance with EC Regulation No. 1907/2006 (REACH) as amended by Regulation (EU) 2020/878.

Revision 2 Revision date: 15/01/2024

Rev.	Date	Reason of the revision	Prepared by DTEC	Checked and approved by DG
0	24/09/2019	Emission	Sala Lorenzo	Sala Giacomo
1	01/09/2020	Manufacturer update par 3.1	Sala Lorenzo	Sala Giacomo
<u>2</u>	<u>15/01/2024</u>	Updating according to EC Regulation No. 1907/2006 (REACH) as amended by Regulation (EU) 2020/878 and MDR 2017/745	Sala Lorenzo	Sala Giacomo

Mesa Italia S.r.l.

Via dell'Artigianato, 35/37 – 25039 Travagliato (BS) ITALIA
Tel. +39 0306863251 – Fax +39 030 6863252
P.IVA/C.F. 00623390176 – Codice Univoco A4707H7
Info@mesaitalia.it – www.mesaitalia.it



MINDFAB GmbH

Max-Josef-Metzger-Str. 6

MINDFAB 86157 Augsburg, Germany
Phone: +49 821 455252-0



Via dell'Artigianato, 35/37/39 - 25039 Travagliato (BS) ITALIA - Tel. +39 030 6863251 - Fax +39 030 6863252

info@mesaitalia.it - sales@mesaitalia.it - www.mesaitalia.it

C.F./Partita IVA - VAT IT00623390176 - N° R.E.A. BS 205429

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/ENTERPRISE				
1.1. Product identification	FAB Titanium G5			
1.2. Relevant identified uses of the substance/mixture and uses advised against	Recommended Uses: - The device is intended to be cut using CAD/CAM milling machines to produce implant abutments or frameworks for screw- or cement-retained, single, or multiple unit restorations in a dental laboratory			
1.3. Details of the supplier of the safety data sheet	Manufacturer: MESA Italia S.r.I. REGISTERED OFFICE AND PRODUCTION FACILITY: Via dell'Artigianato, 35/37 - 25039 - Travagliato (BS) - ITALY Tel.: +39 030.6863251 e-mail: info@mesaitalia.it website: www.mesaitalia.it Distributor: MINDFAB GmbH Max-Josef-Metzger-Str. 6 86157 Augsburg, Germany Phone: +49 821 455252-0 E-Mail: augsburg@mindfab.com			
1.4.Emergency telephone number	 Tel. Company: +39 030 6863251 (working hours: 8 - 17) Bergamo Poison Control Centre 800883300 (Papa Giovanni XXII Hospital) Milan Poison Control Centre +39 02 66101029 (Niguarda Ca' Granda Hospital) Florence Poison Control Centre +39 055 7947819 ("Careggi" Hospital, Medical Toxicology O.U.) Foggia Poison Control Centre 800183459 (Univ. of Foggia's Hospital) Naples Poison Control Centre +39 081 7472870 ("A. Cardarelli" Hospital) Pavia Poison Control Centre +39 0382 24444 (National Centre for Toxicological Information's PCC) Rome Poison Control Centre +39 06 68593726 ("Bambino Gesù" Children's Hospital PCC, Dept. of Emergency and Acceptance DEA) Rome Poison Control Centre +39 06 3054343 ("A. Gemelli" General Hospital PCC) Rome Poison Control Centre +39 06 49978000 ("Umberto I" General Hospital PCC) 			

Mesa Italia S.r.l.

Via dell'Artigianato, 35/37 – 25039 Travagliato (BS) ITALIA
Tel. +39 0306863251 – Fax +39 030 6863252
P.IVA/C.F. 00623390176 – Codice Univoco A4707H7
Info@mesaitalia.it – www.mesaitalia.it



MINDFAB GmbH

Max-Josef-Metzger-Str. 6

MINDFAB 86157 Augsburg, Germany
Phone: +49 821 455252-0



Via dell'Artigianato, 35/37/39 - 25039 Travagliato (BS) ITALIA - Tel. +39 030 6863251 - Fax +39 030 6863252

info@mesaitalia.it - sales@mesaitalia.it - www.mesaitalia.it

C.F./Partita IVA - VAT IT00623390176 - N° R.E.A. BS 205429

2. HAZARDS IDENTIFICATION			
2.1. Classification of the substance or mixture	This product does not meet the criteria for classification as hazardous under Titles I and II of EC Regulation No. 1272/2008 on classification, labelling and packaging of substances and mixtures. The products referred to in this sheet are in the form of solid metallic bond. When used under normal conditions and in accordance with the intended use, they are generally not considered hazardous to humans or the environment. Medical devices according to MDR 2017/745 in their final state are exempted from the CLP legislation.		
2.2. Label elements	None, in compliance with EC Regulation No. 1272/2008 (CLP), as amended.		
2.3. Other hazards	vPvB substances: none PBT substances: none		

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

N/A

3.2. Mixtures

Non-ferrous metal-based alloy. Titanium-based alloy.

Non-hazardous substances according to EC Regulation No.1272/08, as amended.

Name	IUPAC name	IUPAC name Product identifiers		Classification	
Ti	Titanium	CAS 7440-32-6	90	11330 flores and	
11	Hanium	EC 231-142-3	90	H228 flam sol	
Al	Aluminium	CAS 7429-90-5	C	H228 flam sol	
AI	Aluminium	EC 231-072-3	6	H261 water-react	
V	Vanadium	CAS 7440-62-2	Name	Nana	
		EC 231-171-1	4	None	

4. FIRST-AID MEASURES

4.1. Description of first-aid measures

Inhalation	Immediate medical attention	Not necessary

Mesa Italia S.r.l.

Via dell'Artigianato, 35/37 – 25039 Travagliato (BS) ITALIA

Tel. +39 0306863251 – Fax +39 030 6863252 P.IVA/C.F. 00623390176 – Codice Univoco A4707H7 Info@mesaitalia.it – www.mesaitalia.it



MINDFAB GmbH

Max-Josef-Metzger-Str. 6 MINDFAB 86157 Augsburg, Germany Phone: +49 821 455252-0



Via dell'Artigianato, 35/37/39 - 25039 Travagliato (BS) ITALIA - Tel. +39 030 6863251 - Fax +39 030 6863252

info@mesaitalia.it - sales@mesaitalia.it - www.mesaitalia.it

C.F./Partita IVA - VAT IT00623390176 - N° R.E.A. BS 205429

		Movement of the exposed individual from the area to fresh
	First-aid measures	air is recommended. In case of respiratory arrest, perform
		artificial respiration and consult a doctor.
	Specific rescue tools	None
	Immediate medical attention	Not necessary
		Wash contaminated skin promptly with soap and water, or
Skin contact	First-aid measures	with a mild detergent. Remove wet clothing immediately and
Skin contact	First-aid measures	wash the skin with water. Remove the contaminated clothing
		and wash it thoroughly before reusing it.
	Specific rescue tools	None
	Immediate medical attention	Consult a doctor in case of persistent irritation.
Contact with	First-aid measures	Rinse immediately with plenty of water for not more than 15
		minutes. Remove any contact lenses and open the eyes
the yes		widely. If eye irritation persists, contact a doctor.
	Specific rescue tools	None
	Immediate medical attention	Not necessary
Ingostion		Rinse mouth with water. Consult a doctor. Do not administer
Ingestion	First-aid measures	any beverage to the patient if unconscious.
	Specific rescue tools	None
4.2. Most impo	ortant symptoms and effects, both a	acute and delayed
None		
4.3. Indication	of any immediate medical attention	n and special treatment needed
No further rele	vant information available.	

5. FIREFIGHTING MEASURES			
5.1. Suitable extinguishing media	Non-flammable due to the form in which they are supplied. Use fire-fighting means appropriate to the environment. At the contrary, if the material is fine divided (powder) it could explode at open air. Use fire-fighting measures that suit the environment.		
5.2. Special hazards arising from the substance or mixture	None		
5.3. Advice for firefighters	In addition to normal fire-fighting equipment, use respiratory protection, i.e., self-contained breathing apparatus.		

Mesa Italia S.r.l.

Via dell'Artigianato, 35/37 – 25039 Travagliato (BS) ITALIA Tel. +39 0306863251 - Fax +39 030 6863252 P.IVA/C.F. 00623390176 – Codice Univoco A4707H7 Info@mesaitalia.it - www.mesaitalia.it



MINDFAB GmbH

Max-Josef-Metzger-Str. 6 MINDFAB 86157 Augsburg, Germany Phone: +49 821 455252-0



Via dell'Artigianato, 35/37/39 - 25039 Travagliato (BS) ITALIA - Tel. +39 030 6863251 - Fax +39 030 6863252

info@mesaitalia.it - sales@mesaitalia.it - www.mesaitalia.it

C.F./Partita IVA - VAT IT00623390176 - N° R.E.A. BS 205429

6. ACCIDENTAL RELEASE MEASURES			
Avoid the formation of dust. Ens	ure adequate ventilation. Do not inhale vapours.		
6.1. Personal precautions, protective equipment and emergency procedures Avoid contact with eyes, skin or clothing. Avoid generating excessive dust. Do not disperse into the environment.			
6.2. Environmental precautions Do not discharge into drains, waterways or soil.			
6.3. Methods and material for containment and cleaning up	Recover the product and store it in a container suitable for reuse. Avoid the formation of dust.		
6.4. References to other sections	Refer to sections 8 and 13.		

7. HANDLING AND STORAGE	
7.1. Precautions for safe handling	Avoid contact with eyes, skin and clothing. Avoid generating and breathing dust. Wear protective clothing and equipment as outlined in Section 8. Use only with adequate ventilation. Do not eat, drink or smoke in the workplace. Wash contaminated clothing before use. After handling the product, wash thoroughly with soap and water. Dust can form an explosive mixture with air. Minimize dust generation and accumulation. Keep dust away from open flames, hot surfaces and other sources of ignition. Follow good cleaning practices to keep surfaces (including surrounding areas, e.g., pipes, ducts and false ceilings) free of dust. Provide adequate precautions such as a connection and grounding, or inert atmospheres. Product residue is still present in empty containers. Observe all safety measures outlined in this MSDS regarding empty container management.
7.2. Conditions for safe storage, including any incompatibilities	Store in its original packaging, tightly closed, in a cool, dry place.
7.3. Specific end uses	There are no special uses outside of those listed in par. 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION					
8.1. Control	CAS No.	Name	TLV - TWA	TLV - STEL	Critical effects

Mesa Italia S.r.l.

Via dell'Artigianato, 35/37 – 25039 Travagliato (BS) ITALIA Tel. +39 0306863251 – Fax +39 030 6863252 P.IVA/C.F. 00623390176 – Codice Univoco A4707H7

Info@mesaitalia.it - www.mesaitalia.it



MINDFAB GmbH

Max-Josef-Metzger-Str. 6

MINDFAB 86157 Augsburg, Germany
Phone: +49 821 455252-0



Via dell'Artigianato, 35/37/39 - 25039 Travagliato (BS) ITALIA - Tel. +39 030 6863251 - Fax +39 030 6863252

info@mesaitalia.it - sales@mesaitalia.it - www.mesaitalia.it

C.F./Partita IVA - VAT IT00623390176 - N° R.E.A. BS 205429

parameters (ACGIH/14 -	7440-32-6	Titanium	10 mg/m³ (inhalable fraction) 6 mg/m³ (alveolar fraction)	-	-
AIDII/14)	7429-90-5	Aluminium	10 mg/m³ (inhalable fraction) 3 mg/m³ (respirable fraction)	-	-
	7440-62-2	Vanadium	0.5 mg/m³ (inhalable fraction)	-	-

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Before wearing personal protective equipment becomes necessary, please observe the following technical measures:

- confine the working area to avoid indirect exposure of other workers not involved in the operations;
- when supervising any operation that can promote the release of dust or fibres, check that suitable air suction, ducting, and filtration systems are properly installed and operational;
- clean the work surfaces regularly (by vacuuming).

In case wearing personal protective equipment is made necessary, the type of equipment that can provide the appropriate protection is outlined below.

8.2.2. Individual protection measures, such as personal protective	a) Eye/face protection	Use eye protection. Wear a full-face shield or mask.
	b) Skin protection	Use protective gloves. Avoid prolonged skin contact. Wear appropriate protective clothes to avoid any potential skin contact. Use special workwear.
equipment (Dir. 98/24/EEC)	c) Respiratory protection	Use particle-filtering respiratory equipment (type P3).
33, 2 4, 223,	d) Thermal dangers	None
8.2.3. Environmental exposure controls	It is recommended that Legislative Decree 81/08, as amended, be implemented and, in particular, that workers' exposure be monitored (air quality monitoring) and, if required, health surveillance be conducted.	

9. PHYSICAL AND CHEMICAL PROPERTIES		
9.1. Information on basic	Physical state	Solid
physical and chemical	Colour	White
properties	Odour	None

Mesa Italia S.r.l.

Via dell'Artigianato, 35/37 – 25039 Travagliato (BS) ITALIA
Tel. +39 0306863251 – Fax +39 030 6863252
P.IVA/C.F. 00623390176 – Codice Univoco A4707H7
Info@mesaitalia.it – www.mesaitalia.it



MINDFAB GmbH

Max-Josef-Metzger-Str. 6

MINDFAB 86157 Augsburg, Germany
Phone: +49 821 455252-0

E-Mail: augsburg@mindfab.com



Via dell'Artigianato, 35/37/39 - 25039 Travagliato (BS) ITALIA - Tel. +39 030 6863251 - Fax +39 030 6863252

info@mesaitalia.it - sales@mesaitalia.it - www.mesaitalia.it

C.F./Partita IVA - VAT IT00623390176 - N° R.E.A. BS 205429

	Melting point/point of freezing	1710°C
	Boiling point	Not available
	Flammability	Not applicable
	Lower and upper explosive limit	Not applicable
	Flash point	Not applicable
	Autoignition temperature	Not applicable
	Decomposition temperature	Not applicable
	рН	Not applicable
	Kinematic viscosity	Not applicable
	Solubility	Not available
	N-Octanol/Water Partition Coefficient	Not applicable
	Vapour pressure	Not applicable
	Density and/or relative density	4.5 g/cm ³
	Relative vapour density	Not applicable
	Particle characteristics	Not applicable
9.2. Other information	None	

10. STABILITY AND REACTIVITY	
10.1. Reactivity	Non-reactive
10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions	Possible hydrogen formation upon contact with acids.
10.4. Conditions to avoid	Titanium is affected by hydrofluoric/nitric acid mixtures.
10.5. Incompatible materials	Can ignite in the presence of dry chlorine at room temperature; explosive reactions with red fuming nitric acid have been reported (not
	with normal concentrations): undergoes a termite-like reaction with iron oxide at elevated temperatures.
10.6. Hazardous decomposition products	No hazardous decomposition products known.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Mesa Italia S.r.l.

Via dell'Artigianato, 35/37 – 25039 Travagliato (BS) ITALIA
Tel. +39 0306863251 – Fax +39 030 6863252
P.IVA/C.F. 00623390176 – Codice Univoco A4707H7
Info@mesaitalia.it – www.mesaitalia.it



MINDFAB GmbH

Max-Josef-Metzger-Str. 6

MINDFAB 86157 Augsburg, Germany
Phone: +49 821 455252-0



Via dell'Artigianato, 35/37/39 - 25039 Travagliato (BS) ITALIA - Tel. +39 030 6863251 - Fax +39 030 6863252

info@mesaitalia.it - sales@mesaitalia.it - www.mesaitalia.it

C.F./Partita IVA - VAT IT00623390176 - N° R.E.A. BS 205429

Under normal handling and use, no dangerous reactions are known.				
Titanium	Not available	Not available	Not available	
Aluminium	Not available	Not available	Not available	
Vanadium	toxicity type: acute effect tested: LD50 exposure pathway: oral value: > 2000 mg/kg	Not available	Not available	

12. ECOLOGICAL INFORMATION			
12.1. Toxicity	Acute and chronic aquatic toxicity to fish, crustaceans, algae and other aquatic plants Not significant		
	Toxicity to terrestrial Not significant		
	Toxicity to terrestrial macroorganisms	Not significant	
	Impact on wastewater treatment plants	Not significant	
12.2. Persistence and degradability	Not degradable		
12.3. Bioaccumulative potential	Not relevant		
	Mobility in soil	Not significant	
12.4 Mobility	Mobility in water	Not significant	
12.4. Mobility	Atmospheric emissions	Avoid dispersion of dust	
	Aromatic hydrocarbons	Not applicable	
12.5. Results of PBT and vPvB assessment	Not applicable		
12.6. Other adverse effects	None		

Mesa Italia S.r.l.

Via dell'Artigianato, 35/37 – 25039 Travagliato (BS) ITALIA
Tel. +39 0306863251 – Fax +39 030 6863252
P.IVA/C.F. 00623390176 – Codice Univoco A4707H7
Info@mesaitalia.it – www.mesaitalia.it



MINDFAB GmbH

Max-Josef-Metzger-Str. 6

MINDFAB 86157 Augsburg, Germany
Phone: +49 821 455252-0



Via dell'Artigianato, 35/37/39 - 25039 Travagliato (BS) ITALIA - Tel. +39 030 6863251 - Fax +39 030 6863252

info@mesaitalia.it - sales@mesaitalia.it - www.mesaitalia.it

C.F./Partita IVA - VAT IT00623390176 - N° R.E.A. BS 205429

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Operate according to current national and local regulations. In Italy, operate according to Legislative Decree No. 152 of 3 April, 2006 "Environmental Regulations" and subsequent additions and amendments, pursuant to European directives on environmental protection. According to European Directive 2008/98/EC, waste does not require special supervision.

The waste producer is responsible for determining the toxicity and physical properties of the generated material to identify the appropriate waste classification and disposal methods, in compliance with current regulations.

14. TRANSPORT INFORMATION

No special precautions are required for transport.

Transport of dangerous goods by road/rail ADR/RID: Not applicable

IMDG sea Transport: Unclassified

Air transport ICAO-TI and IATA-DGR: Unclassified

Air transport ICAO-11 and IATA-DGR: Onclassified	
14.1. UN Number	Not applicable
14.2. UN shipping name	Not applicable
14.3. Transport-related hazard classes	Not applicable
14.4. Packing Group	Not applicable
14.5. Environmental hazards	Not applicable
14.6. Special precautions for users	Not applicable
14.7. Transport in bulk cargo according to Annex II 73/78 of MARPOL, and the IBC Code	Not applicable

15. REGULATORY INFORMATION

Mesa Italia S.r.l.

Via dell'Artigianato, 35/37 – 25039 Travagliato (BS) ITALIA
Tel. +39 0306863251 – Fax +39 030 6863252
P.IVA/C.F. 00623390176 – Codice Univoco A4707H7
Info@mesaitalia.it – www.mesaitalia.it



MINDFAB GmbH

Max-Josef-Metzger-Str. 6

MINDFAB 86157 Augsburg, Germany
Phone: +49 821 455252-0

E-Mail: augsburg@mindfab.com



Via dell'Artigianato, 35/37/39 - 25039 Travagliato (BS) ITALIA - Tel. +39 030 6863251 - Fax +39 030 6863252

info@mesaitalia.it - sales@mesaitalia.it - www.mesaitalia.it

C.F./Partita IVA - VAT IT00623390176 - N° R.E.A. BS 205429

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	 Legislative Decree No. 81/08, as amended. Restrictions related to the product or contained substances according to Annex XVII of EC Reg. 1907/06 (REACH), as amended: restriction No. 28 (ceramic fibres) EC Regulation No. 1272/08 (CLP), as amended. Legislative Decree No. 105/15 (Seveso III Directive): not applicable Legislative Decree No. 152/06, as amended. Environmental Regulations
15.2. Chemical safety assessment	Not available

16. OTHER INFORMATION		
Reviews	The MSDS was prepared as per EC Reg. No. 878/20 format requirements.	
Recommended restrictions on use	The item must not to be used for any purpose other than those specified in par. 1.2.	
Meaning of the main abbreviations	 ADR: European agreement concerning the international carriage of dangerous goods by Road. CAS: Chemical Abstract Service (a division of the American Chemical Society). CLP: Classification, Labelling, Packaging. DNEL: Derived no-effect level. EINECS: European Inventory of Existing Commercial Substances. GHS: Globally Harmonized System, employed for the classification and labelling of chemicals. IATA-DGR: Regulation of the International Air Transport Association for the shipping of dangerous goods. ICAO-TI: Technical Instructions of the "International Civil Aviation Organization" (ICAO). IMDG: International Maritime Dangerous Goods Code. LC50: Lethal concentration for 50 percent of the population tested. LD50: Lethal dose for 50 percent of the population tested. LTE: Long-term exposure. PNEC: Predicted no-effect concentration. RID: Regulations concerning the international carriage of dangerous goods by rail. STE: Short-term exposure limit. STOT: Specific target organ toxicity. 	

Mesa Italia S.r.l.

Via dell'Artigianato, 35/37 – 25039 Travagliato (BS) ITALIA Tel. +39 0306863251 - Fax +39 030 6863252 P.IVA/C.F. 00623390176 – Codice Univoco A4707H7

Info@mesaitalia.it - www.mesaitalia.it



MINDFAB GmbH

Max-Josef-Metzger-Str. 6 MINDFAB 86157 Augsburg, Germany Phone: +49 821 455252-0



Via dell'Artigianato, 35/37/39 - 25039 Travagliato (BS) ITALIA - Tel. +39 030 6863251 - Fax +39 030 6863252

info@mesaitalia.it - sales@mesaitalia.it - www.mesaitalia.it

C.F./Partita IVA - VAT IT00623390176 - N° R.E.A. BS 205429

	•	TLV: Threshold limit value.
	•	TWA-TLV: Threshold limit value for a time-weighted average exposure
		of 8 h/day (ACGIH standard)
	•	AIDII, ACGIH 2014 - Threshold Limit Values. Biological Exposure
Sources of key data used to		Indices, Giornale degli Igienisti Industriali (Journal of Industrial
compile this MSDS		Hygienists), Supplement to Volume 3, No. 1 - 2014
	-	http://echa.europa.eu/web/guest

The information contained herein is based on our state of knowledge as of the date mentioned above, and it refers only to the product indicated. Therefore, it does not constitute a guarantee of any particular quality.

The user is responsible for ensuring that such information is appropriate and complete for the specific use intended. This sheet cancels and replaces any previous edition.

Mesa Italia S.r.l.

Via dell'Artigianato, 35/37 – 25039 Travagliato (BS) ITALIA
Tel. +39 0306863251 – Fax +39 030 6863252
P.IVA/C.F. 00623390176 – Codice Univoco A4707H7
Info@mesaitalia.it – www.mesaitalia.it



MINDFAB GmbH

Max-Josef-Metzger-Str. 6

MINDFAB 86157 Augsburg, Germany
Phone: +49 821 455252-0