

Mesa Italia S.r.l.

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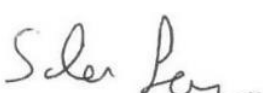
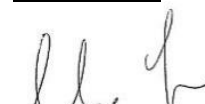
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C.F./Partita IVA - VAT IT00623390176 - N° R.E.A. BS 205429

## 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>	<u>Updating according to EC Regulation No. 1907/2006 (REACH) as amended by Regulation (EU) 2020/878 and MDR 2017/745</u>	<u>Sala Lorenzo</u> 	<u>Sala Giacomo</u> 

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/ENTERPRISE	
1.1. Product identification	<b>FAB Titanium G5</b>
1.2. Relevant identified uses of the substance/mixture and uses advised against	Recommended Uses: <ul style="list-style-type: none"> <li>- 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</li> </ul>
1.3. Details of the supplier of the safety data sheet	<p><b>Manufacturer:</b>  <b>MESA Italia S.r.l.</b>            REGISTERED OFFICE AND PRODUCTION FACILITY:            Via dell'Artigianato, 35/37 - 25039 - Travagliato (BS)            - ITALY Tel.: +39 030.6863251            e-mail: <a href="mailto:info@mesaitalia.it">info@mesaitalia.it</a>            website: <a href="http://www.mesaitalia.it">www.mesaitalia.it</a></p> <p><b>Distributor:</b>  <b>MINDFAB GmbH</b>            Max-Josef-Metzger-Str. 6            86157 Augsburg, Germany            Phone: +49 821 455252-0            E-Mail: <a href="mailto:augsburg@mindfab.com">augsburg@mindfab.com</a></p> 
1.4. Emergency telephone number	<p>Tel. Company: +39 030 6863251 (working hours: 8 - 17)</p> <ul style="list-style-type: none"> <li>- Bergamo Poison Control Centre 800883300 (Papa Giovanni XXII Hospital)</li> <li>- Milan Poison Control Centre +39 02 66101029 (Niguarda Ca' Granda Hospital)</li> <li>- Florence Poison Control Centre +39 055 7947819 ("Careggi" Hospital, Medical Toxicology O.U.)</li> <li>- Foggia Poison Control Centre 800183459 (Univ. of Foggia's Hospital)</li> <li>- Naples Poison Control Centre +39 081 7472870 ("A. Cardarelli" Hospital)</li> <li>- Pavia Poison Control Centre +39 0382 24444 (National Centre for Toxicological Information's PCC)</li> <li>- Rome Poison Control Centre +39 06 68593726 ("Bambino Gesù" Children's Hospital PCC, Dept. of Emergency and Acceptance DEA)</li> <li>- Rome Poison Control Centre +39 06 3054343 ("A. Gemelli" General Hospital PCC)</li> <li>- Rome Poison Control Centre +39 06 49978000 ("Umberto I" General Hospital PCC)</li> </ul>

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2. HAZARDS IDENTIFICATION	
<b>2.1. Classification of the substance or mixture</b>	<p>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.</p> <p>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.</p> <p><u>Medical devices according to MDR 2017/745 in their final state are exempted from the CLP legislation.</u></p>
<b>2.2. Label elements</b>	None, in compliance with EC Regulation No. 1272/2008 (CLP), as amended.
<b>2.3. Other hazards</b>	<p>vPvB substances: none</p> <p>PBT substances: none</p>

3. COMPOSITION/INFORMATION ON INGREDIENTS				
<b>3.1. Substances</b>				
N/A				
<b>3.2. Mixtures</b>				
Non-ferrous metal-based alloy. Titanium-based alloy.				
Non-hazardous substances according to EC Regulation No.1272/08, as amended.				
Name	IUPAC name	Product identifiers	%m/m	Classification
Ti	Titanium	CAS 7440-32-6 EC 231-142-3	90	H228 flam sol
Al	Aluminium	CAS 7429-90-5 EC 231-072-3	6	H228 flam sol H261 water-react
V	Vanadium	CAS 7440-62-2 EC 231-171-1	4	None

4. FIRST-AID MEASURES		
<b>4.1. Description of first-aid measures</b>		
<b>Inhalation</b>	<b>Immediate medical attention</b>	Not necessary

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

<b>5. FIREFIGHTING MEASURES</b>	
<b>5.1. Suitable extinguishing media</b>	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.
<b>5.2. Special hazards arising from the substance or mixture</b>	None
<b>5.3. Advice for firefighters</b>	In addition to normal fire-fighting equipment, use respiratory protection, i.e., self-contained breathing apparatus.

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

7. HANDLING AND STORAGE	
<b>7.1. Precautions for safe handling</b>	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.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	Store in its original packaging, tightly closed, in a cool, dry place.
<b>7.3. Specific end uses</b>	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

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<b>parameters (ACGIH/14 - AIDII/14)</b>	7440-32-6	Titanium	10 mg/m <sup>3</sup> (inhalable fraction) 6 mg/m <sup>3</sup> (alveolar fraction)	-	-
	7429-90-5	Aluminium	10 mg/m <sup>3</sup> (inhalable fraction) 3 mg/m <sup>3</sup> (respirable fraction)	-	-
	7440-62-2	Vanadium	0.5 mg/m <sup>3</sup> (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.

<b>8.2.2. Individual protection measures, such as personal protective equipment (Dir. 98/24/EEC)</b>	<b>a) Eye/face protection</b>	Use eye protection. Wear a full-face shield or mask.
	<b>b) Skin protection</b>	Use protective gloves. Avoid prolonged skin contact. Wear appropriate protective clothes to avoid any potential skin contact. Use special workwear.
	<b>c) Respiratory protection</b>	Use particle-filtering respiratory equipment (type P3).
	<b>d) Thermal dangers</b>	None
<b>8.2.3. Environmental exposure controls</b>	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, that health surveillance be conducted.	

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1. Information on basic physical and chemical properties</b>	<b>Physical state</b>	Solid
	<b>Colour</b>	White
	<b>Odour</b>	None

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

<b>10. STABILITY AND REACTIVITY</b>	
<b>10.1. Reactivity</b>	Non-reactive
<b>10.2. Chemical stability</b>	Stable under normal conditions
<b>10.3. Possibility of hazardous reactions</b>	Possible hydrogen formation upon contact with acids.
<b>10.4. Conditions to avoid</b>	Titanium is affected by hydrofluoric/nitric acid mixtures.
<b>10.5. Incompatible materials</b>	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.
<b>10.6. Hazardous decomposition products</b>	No hazardous decomposition products known.

<b>11. TOXICOLOGICAL INFORMATION</b>	
<b>11.1. Information on toxicological effects</b>	

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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

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

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## 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

### 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

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<b>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	<ul style="list-style-type: none"> <li>- Legislative Decree No. 81/08, as amended.</li> <li>- 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)</li> <li>- EC Regulation No. 1272/08 (CLP), as amended.</li> <li>- Legislative Decree No. 105/15 (Seveso III Directive): not applicable</li> <li>- Legislative Decree No. 152/06, as amended. Environmental Regulations</li> </ul>
<b>15.2. Chemical safety assessment</b>	Not available

<b>16. OTHER INFORMATION</b>	
<b>Reviews</b>	The MSDS was prepared as per EC Reg. No. 878/20 format requirements.
<b>Recommended restrictions on use</b>	The item must not to be used for any purpose other than those specified in par. 1.2.
<b>Meaning of the main abbreviations</b>	<ul style="list-style-type: none"> <li>▪ ADR: European agreement concerning the international carriage of dangerous goods by Road.</li> <li>▪ CAS: Chemical Abstract Service (a division of the American Chemical Society).</li> <li>▪ CLP: Classification, Labelling, Packaging.</li> <li>▪ DNEL: Derived no-effect level.</li> <li>▪ EINECS: European Inventory of Existing Commercial Substances.</li> <li>▪ GHS: Globally Harmonized System, employed for the classification and labelling of chemicals.</li> <li>▪ IATA-DGR: Regulation of the International Air Transport Association for the shipping of dangerous goods.</li> <li>▪ ICAO-TI: Technical Instructions of the "International Civil Aviation Organization" (ICAO).</li> <li>▪ IMDG: International Maritime Dangerous Goods Code.</li> <li>▪ LC50: Lethal concentration for 50 percent of the population tested.</li> <li>▪ LD50: Lethal dose for 50 percent of the population tested.</li> <li>▪ LTE: Long-term exposure.</li> <li>▪ PNEC: Predicted no-effect concentration.</li> <li>▪ RID: Regulations concerning the international carriage of dangerous goods by rail.</li> <li>▪ STE: Short-term exposure.</li> <li>▪ STEL: Short-term exposure limit.</li> <li>▪ STOT: Specific target organ toxicity.</li> </ul>

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	<ul style="list-style-type: none"> <li>▪ TLV: Threshold limit value.</li> <li>▪ TWA-TLV: Threshold limit value for a time-weighted average exposure of 8 h/day (ACGIH standard)</li> </ul>
<b>Sources of key data used to compile this MSDS</b>	<ul style="list-style-type: none"> <li>▪ AIDII, ACGIH 2014 - Threshold Limit Values. Biological Exposure Indices, Giornale degli Igienisti Industriali (Journal of Industrial Hygienists), Supplement to Volume 3, No. 1 - 2014</li> <li>▪ <a href="http://echa.europa.eu/web/guest">http://echa.europa.eu/web/guest</a></li> </ul>
<p><i>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.</i></p> <p><i>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.</i></p>	

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