DENTSPLY International

DENTSPLY GAC

Safety Data Sheet
[SDS]

Form 0280-FM-07-09 Rev 6

Date Issued: 9/09/14
Date Revised: 9/09/14
Revision Number: 1

Product Identifier [Part/Item Number(s)]: **205-2010-11, 205-2010-12, 205-2010-13, 205-2010-21, 205-2010-22, 205-2010-23, 205-2010-33, 205-2010-44, 205-2013-10, 205-ATC12, 205-Q2112, 205-Q2113**

1. PRODUCT IDENTIFICATION

Trade Name (as labeled):	**Bio Bite Corrector**
Chemical Name/Classification:	**Titanium/ Titanium Alloy**
U.N. Number:	**N/A**
U.N. Dangerous Goods Classification:	**N/A**
Recommended Use:	**Orthodontic/Dental only**
Restrictions on Use:	**None**
Manufacturer/Supplier Name:	**DENTSPLY GAC**
Manufacturer/Supplier Address:	**One CA Plaza, Suite 100** **Islandia, NY 11749**
Manufacturer/Supplier Telephone Number:	**1-800-645-5530**
Emergency Contact Telephone Number:	**1-800 645-5530**
Email address:	**gac.info@dentsply.com**

2. HAZARD(s) IDENTIFICATION

Hazard/Danger Classification:

Health	Environmental	Physical
Unknown	Unknown	Unknown

Associated Hazards: **Signal Word**

Hazard Statements	Precautionary Statements
Unknown	Unknown

EU Classification: Unknown

EU Risk (R) and Safety (S) Phrases: Unknown

3. COMPOSITION AND INFORMATION ON INGREDIENTS

The term "hazardous" and "hazardous material" as used within this MSDS should be interpreted as defined by, and in accordance with, the OSHA Hazard Communication Standard (29 CFR Part 2920, 1200) including Appendices, Lists, References, etc., all of which are hereby incorporated by reference. **No permissible exposure limits (PEL) or threshold limit values (TLV) exist for titanium/titanium alloys. Values shown are applicable to component elements.**

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	C.A.S	%
Aluminum (as dust) (as fume)	15 5	10 5	7429-90-5	0-8
Carbon	3.5	3.5	1333-86-4	0-0.1
Chromium	1	0.5	7440-47-3	0-11
Columbium / Niobium	None	None	7440-03-1	0-45
Copper (as dust) (as fume)	1 0.1	1 0.2	7440-50-8	0-0.2
Iron (oxide as fume)	10	5	1309-37-1	0-0.42
Molybdenum (Total Dust) (Soluble compounds)	15 5	10	7439-98-7	0-12
Tantalum (metal and oxide dust)	5	5	7440-25-7	0-1
Tin (inorganic compounds) (organic compounds)	2 0.1	2	7440-31-5	0-3
Titanium (Total dust)	15	10	13463-67-7	0-5
Vanadium (as dust) (as fume)	0.5 0.1	0.05 0.05	1314-62-1	0-5.15
Zirconium	5	5	7440-67-7	0-4

Various combinations of the above components may appear in grades supplied. More specific information on a particular grade may be obtained by contacting Dynamet.

4. FIRST-AID MEASURES

Routes of Exposure	**First Aid Instructions**
Eye	Flush with water for at least 15 minutes. If irritation persists, seek medical assistance
Skin	Flush skin with soap and water for at least 15 minutes, remove contaminated clothing.
Inhalation	Remove from exposure to fresh air, restore or support breathing as needed. Seek medical assistance.
Ingestion	Do not induce vomiting. Seek medical assistance.
Most important symptoms of exposure	Unknown

Other	none
Note to Physicians (Treatment, Testing, and Monitoring)	

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Fire can be controlled by covering with dry salt or powder from Type D fire extinguisher
Fire Fighting Procedures:	Remove uninvolved material, allow fire to burn out.
Specific Hazards Arising from the Chemical:	Dry titanium burn slowly while releasing much heat.
Precautions for Fire Fighters:	Water applied to burning titanium may cause an explosion. Piled chips may burn vigorously

Recommended Protective Equipment for Fire Fighters:

EYES/FACE	SKIN	RESPRIATORY	THERMAL
			

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, PPE and Emergency Procedures: Use personal protective equipment and remove all ignition sources

Environmental Precautions: No information is available in regards to environmental hazards. Dispose of in accordance to local, state, and federal regulations.

Methods and Materials for Containment and Clean-up: Keep fines from becoming airborne. Do not use compressed air. If titanium fines become airborne, ventilate properly to reduce air density. Use non-sparking tools. Do not push powder long distances across the floor. Keep in small piles away from each other. Place material into non-sparking or anti-static containers. Use only static-free vacuums for cleaning.

Recommended Personal Protective Equipment for Containment and Clean-up:

EYES/FACE	SKIN	RESPRIATORY	THERMAL
			

7. HANDLING AND STORAGE

Precautions for Safe Handing: Keep away from open flames and other sources of ignition.

Conditions for Safe Storage:
Titanium and titanium alloy solids are not considered combustible in the form supplied. However, subsequent machining operations require the use of cutting fluids to reduce the temperature of waste material which might ignite without coolant.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: Unknown

Biological Exposure Limits: Unknown

Appropriate Engineering Controls: Unknown

Individual Protection Measures (PPE)
Specific Eye/face Protection: Should be used when cutting, grinding or welding
Specific Skin Protection: Wear appropriate clothing to prevent skin exposure
Specific Respiratory Protection: When exposure limits are exceeded, use proper, approved respirator.
Specific Thermal Hazards: unknown

Recommended Personal Protective Equipment

EYES/FACE	SKIN	RESPRIATORY	THERMAL
			

Environmental Exposure Controls: Unknown

General Hygiene Considerations and Work Practices: Unknown

Protective Measures During Repair and Maintenance of Contaminated Equipment: Unknown

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Gray metallic solid	**Explosive limits:**	Unknown
Odor:	Odorless	**Vapor pressure:**	Unknown
Odor threshold:	Unknown	**Vapor density:**	Unknown
pH:	Unknown	**Relative density:**	Unknown
Melting/freezing point:	**1560-1840C**	**Solubility:**	Unknown
Initial boiling point and range:	Unknown	**Partition coefficient: n-octanol/water:**	Unknown
Flash point:	Unknown	**Auto-ignition temperature:**	Unknown
Evaporation rate:	Unknown	**Decomposition temperature:**	Unknown

Flammability:	Unknown	**Viscosity:**	Unknown
Explosive Properties:	Unknown	**Oxidizing Properties:**	Unknown

10. Stability and Reactivity

Reactivity:: Unknown
Chemical Stability: Unknown
Possibility of Hazardous Reactions: Unknown
Conditions to Avoid: Open flame and heat
Incompatible materials: Strong oxidizing or reducing agents
Hazardous Decomposition Products: Metallic or metal oxide fumes and dust may be produced during welding, grinding, or cutting operations

11. TOXICOLOGICAL INFORMATION

Potential Health Effects: **Eyes:** Contact with eyes may cause irritation **Skin:** Contact with skin may cause irritation **Ingestion:** No Toxic effects would be expected from its inert solid form or under normal usage such as forging and heating **Inhalation:** Dust inhalation may cause tightness and pain in chest, coughing and difficulty in breathing
Chronic Health Effects: No Toxic effects would be expected from its inert solid form or under normal usage such as forging and heating
Carcinogenicity: Unknown
Mutagenicity: Unknown
Medical Conditions Aggravated by Exposure:
Acute Toxicity Data: No Toxic effects would be expected from its inert solid form or under normal usage such as forging and heating
Reproductive Toxicity Data: Unknown
Specific Target Organ Toxicity (STOT): **Single Exposure:** Unknown **Repeated Exposure:** Unknown

12. ECOLOGICAL INFORMATION

Toxicity: Unknown

Persistence and Degradability: Unknown
Bio-accumulative Potential: Unknown
Mobility in Soil: Unknown
Other Adverse Effects: Unknown
Results of PBT/vPvB Assessment: Unknown

13. DISPOSAL CONSIDERATIONS

Regulations: Dispose according to local, state, and federal regulations.
Properties (Physical/Chemical) Affecting Disposal: Dispose according to local, state, and federal regulations.
Waste Treatment Recommendations: Dispose according to local, state, and federal regulations.

14. TRANSPORT INFORMATION

UN Identification Number: N/A
UN Proper Shipping Name: N/A
Transport hazard class(es):N/A
Packing Group: N/A
Special precautions for user: N/A

15. REGULATORY INFORMATION

U.S. Federal Regulations

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): Unknown

Toxic Substances Control Act (TSCA): Unknown

Clean Water Act (CWA): Unknown

Clean Air Act (CAA): Unknown

Superfund Amendments and Reauthorization Act (SARA) Title III Information: Unknown

SARA Section 311/312 (40 CFR 370) Hazard Categories: Unknown

Immediate Hazard:	**n/a**	**Pressure Hazard:**	**n/a**
Delayed Hazard:	**n/a**	**Reactivity Hazard:**	**n/a**
Fire Hazard:	**n/a**		

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):

Components	C.A.S. #	WT %
n/a	**n/a**	**n/a**

State Regulations

California Proposition 65: This product contains the following chemicals(s) known to the State of California to cause cancer, birth defects or reproductive harm (if blank, the product does not contain Proposition 65 regulated chemicals): Unknown

Components	C.A.S. #	WT %
n/a	**n/a**	**n/a**

International Regulations

Canadian Environmental Protection Act: Unknown

Canadian Workplace Hazardous Materials Information System (WHMIS): Unknown

European Inventory of Existing Chemicals (EINECS): Unknown

European Chemical Agency (ECHA) REACH (Registration, Evaluation, Authorization and Restriction of Chemicals): Unknown

16. OTHER INFORMATION

Date of SDS Preparation/Revision: 9/9/14

Data Sources: Supplier's MSDS Specification