



Safety Data Sheet

[SDS]

Form 0280-FM-07-09 Rev 6

Date Issued: 10/24/14
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 Revision Number: 1

Product Identifier [Part/Item Number(s)]: Class 100

1. PRODUCT IDENTIFICATION

Trade Name (as labeled): IN-OVATION C Ceramic Bracket

Chemical Name/Classification: Aluminum Oxide

U.N. Number: Unknown

U.N. Dangerous Goods Classification: Unknown

Recommended Use: For professional dental applications.

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
A metal allergy may occur depending on the individual's susceptibility	Unknown

EU Classification: Unknown

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

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients:



Components	wt %	CAS No.	OSHA PEL mg/m ³	ACGIH TLV mg/m ³
Bracket body:				
Aluminum oxide	≥ 99.9	1344-28-1	15.0	10.0
Silicon dioxide	≤ 0.1	7631-86-9	15.0	10.0
Clip:				
Manganese	0 ~ 5	7439-96-5	5.0	0.02
Nickel	20 ~ 50	7440-02-0	1.0	1.0
Chromium	10 ~ 30	7440-47-3	1.0	0.5
Molybdenum	5 ~ 20	7439-98-7	15.0	10.0
Niobium	0 ~ 5	7440-03-1	None	None
Titanium	0 ~ 5	7440-32-6	None	None
Iron	0 ~ 5	7439-89-6	10.0	5.0
Cobalt	Bal.	7440-48-4	0.1	0.1
Coating:				
Gold	0 ~ 100	7440-57-5	None	None
Rhodium	0 ~ 100	7440-16-6	0.1	1.0

4. FIRST-AID MEASURES

Routes of Exposure	First Aid Instructions
Eye	See specialist for medical treatment.
Skin	Be cautious of external injury caused by fragments such as cutting power.
Inhalation	N/A
Ingestion	See specialist for medical treatment.
Most important symptoms of exposure	Unknown
Other	none
Note to Physicians (Treatment, Testing, and Monitoring)	

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	As this product is nonflammable, use extinguishing media appropriate for the surrounding fire.
Fire Fighting Procedures:	Take normal extinguishing method.
Specific Hazards Arising from the Chemical:	Unknown
Precautions for Fire Fighters:	All personnel engaged in firefighting must use appropriate protective equipment.





Recommended Protective Equipment for Fire Fighters:			
EYES/FACE	SKIN	RESPIRATORY	THERMAL
			

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, PPE and Emergency Procedures: Safety glasses, safety goggles, protective gloves, dust respirator

Environmental Precautions: Implement measure to prevent the scattered products from being re-scattered. Take measure to prevent the product from discharging into sewage, river and sea.

Methods and Materials for Containment and Clean-up: For cleaning up, on account of possibility of a slight injury by fragments, wear protective gloves, a dust respiratory and safety glasses. Especially, in the globular and granulate are spilled over, watch one's step. The scattered products should be swept up and packed into a hermetic container.

Recommended Personal Protective Equipment for Containment and Clean-up:			
EYES/FACE	SKIN	RESPIRATORY	THERMAL
			

7. HANDLING AND STORAGE

Precautions for Safe Handling: In case of breakage of the product, for handling, on account of a possibility of a slight injury by fragments, wear protective gloves, a dust respirator and safety glasses. Especially, if the globular and granulate products are spilled over, quickly put the products into a container, as they are slippery on the floor.

Do not handle the container in a rough manner leading to breakage.

In case of dust occurrence, ventilate with ventilators.

Conditions for Safe Storage: Store the products in a container. Do not put the container directly under the sun. Packaging material: use the container capable of withstanding load or impact from outside, such as cardboard boxes or those made of plastic, and so on.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: Unknown

Biological Exposure Limits: Unknown

Appropriate Engineering Controls: Ventilation: adequate ventilation practice.

Individual Protection Measures (PPE)**Specific Eye/face Protection:** Safety glasses, safety goggles**Specific Skin Protection:** Protective gloves (made of rubber, vinyl, polyethylene and so on)**Specific Respiratory Protection:** Dust respirator (in case of dust occurrence)**Specific Thermal Hazards:** unknown**Recommended Personal Protective Equipment**

EYES/FACE	SKIN	RESPIRATORY	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:	Solid	Explosive limits:	Unknown
Odor:	Odorless	Vapor pressure:	N/A
Odor threshold:	Unknown	Vapor density:	Unknown
pH:	Unknown	Relative density:	Unknown
Melting/freezing point:	Unknown	Solubility:	Insoluble
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:** Stability: this product is considered a stable material under normal storage and handling conditions.**Chemical Stability:** Unknown

Possibility of Hazardous Reactions: Unknown**Conditions to Avoid:** Unknown**Incompatible materials:** Unknown**Hazardous Decomposition Products:** Unknown

11. TOXICOLOGICAL INFORMATION

Potential Health Effects:**Eyes:** N/A**Skin:** N/A**Ingestion:** N/A**Inhalation:** N/A**Chronic Health Effects:** Unknown**Carcinogenicity:** Unknown**Mutagenicity:** Unknown**Medical Conditions Aggravated by Exposure:** Unknown**Acute Toxicity Data:** Unknown**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 of in accordance with local regulations.

Properties (Physical/Chemical) Affecting Disposal: Unknown

Waste Treatment Recommendations: Unknown

14. TRANSPORT INFORMATION

UN Identification Number: Unknown

UN Proper Shipping Name: Unknown

Transport hazard class(es): Unknown

Packing Group: Unknown

Special precautions for user: Unknown

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	9010-79-1	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): This product does not contain any chemicals, which are on the California Proposition 65 list.

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):

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: 10/24/14

Data Sources: Supplier's MSDS Specification