

**DENTSPLY International**  
**GAC Intl.**

**Safety Data Sheet**

Date Issued: June 2013  
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**1. PRODUCT IDENTIFICATION**

**Trade Name (as labeled):** Ovation – C  
**Chemical Name/Classification:** Mono-Product Alumina (Aluminum Oxide)  
**Product Identifier (Part/Item Number):** 310-xx-xxx  
**U.N. Number:** Not Listed  
**U.N. Dangerous Goods Classification:** N/A  
**Recommended Use:** Orthodontic bracket  
**Restrictions on Use:** N/A  
**Manufacturer/Supplier Name:** DENTSPLY GAC Intl.  
**Manufacturer/Supplier Address:** 1 CA Plaza, Suite 100, Islandia, NY - 11749  
**Manufacturer/Supplier Telephone Number:** 1-631-419-1700 (Product Information)  
**Emergency Contact Telephone Number:** 1-631-419-1700  
**Email address:** N/A

**2. HAZARD(S) IDENTIFICATION**

**Hazard/Danger Classification:**

Health	Environmental	Physical
None	None	None

**Associated Hazards:**

**Signal Word:**

Hazard Statements	Precautionary Statements
None	None

**EU Classification:** Not listed.

**EU Risk (R) and Safety (S) Phrases:** N/A

**Refer to Section 16 for the full text of the EU Classifications and R Phrases.**

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Components	C.A.S. # EC#	IUPAC Name	Substance Classification	WT %
Aluminum Oxide	1344-28-1	Alumina	Mono-Product	≥ 90%

Refer to Section 16 for the full text of the GHS and H phrases and EU Classifications and R Phrases.

### 4. FIRST-AID MEASURES

Routes of Exposure	First Aid Instructions
Eye	Flush eyes with water and carefully rinse eyelids
Skin	Flush skin with water
Inhalation	In case of discomfort, remove to a ventilated area. If persistent, consult a physician
Ingestion	Wash mouth with water. If discomfort persists, consult a physician
Most important symptoms of exposure	Irritation
Other	None.
<b>Note to Physicians (Treatment, Testing, and Monitoring)</b>	
None.	

### 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Incombustible
<b>Fire Fighting Procedures:</b>	N/A
<b>Specific Hazards Arising from the Chemical:</b>	N/A
<b>Precautions for Fire Fighters:</b>	N/A

#### Recommended Protective Equipment for Fire Fighters:

EYES/FACE	SKIN	RESPIRATORY	THERMAL
			


## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, PPE and Emergency Procedures:** In case of leakage of grinding powder, cover the powder with a sheet to prevent dispersion into surrounding environment, sweep up and place it in a disposal container.

**Environmental Precautions:** None.

**Methods and Materials for Containment and Clean-up:** Wipe clean with a sheet and dispose of sheet.

### Recommended Personal Protective Equipment for Containment and Clean-up:

EYES/FACE	SKIN	RESPIRATORY	THERMAL
			N/A

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** In case of grinding dust generation, wear a dust respirator to avoid inhalation. Avoid dust generation.

**Conditions for Safe Storage:** Store in closed containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits:** N/A

**Biological Exposure Limits:** Inhalation dust = 0.5mg/m<sup>3</sup>, Total dust = 2mg/m<sup>3</sup>

**Appropriate Engineering Controls:** Dust collector or Dust ventilator




**Individual Protection Measures (PPE)**

**Specific Eye/face Protection:** Wear gloves

**Specific Skin Protection:** Wear a cloth of the protection against dust

**Specific Respiratory Protection:** Wear a dust respirator

**Specific Thermal Hazards:** None.

Recommended Personal Protective Equipment			
EYES/FACE	SKIN	RESPIRATORY	THERMAL
			N/A
<b>Environmental Exposure Controls:</b> None.			
<b>General Hygiene Considerations and Work Practices:</b> None			
<b>Protective Measures During Repair and Maintenance of Contaminated Equipment:</b> Dust respirator.			

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Colorless	<b>Explosive limits:</b>	N/A
<b>Odor:</b>	Odorless	<b>Vapor pressure:</b>	N/A
<b>Odor threshold:</b>	N/A	<b>Vapor density:</b>	N/A
<b>pH:</b>	N/A	<b>Relative density:</b>	3.95-3.99
<b>Melting/freezing point:</b>	N/A	<b>Solubility:</b>	Insoluble
<b>Initial boiling point and range:</b>	N/A	<b>Partition coefficient: n-octanol/water:</b>	N/A
<b>Flash point:</b>	Incombustible	<b>Auto-ignition temperature:</b>	N/A
<b>Evaporation rate:</b>	N/A	<b>Decomposition temperature:</b>	N/A
<b>Flammability:</b>	Not flammable	<b>Viscosity:</b>	N/A
<b>Explosive Properties:</b>	N/A	<b>Oxidizing Properties:</b>	N/A

## 10. STABILITY AND REACTIVITY

**Reactivity:** None known.

**Chemical Stability:** Stable under normal conditions.

**Possibility of Hazardous Reactions:** None.

**Conditions to Avoid:** None.

**Incompatible materials:** None.

**Hazardous Decomposition Products:** Metal oxides.

## 11. TOXICOLOGICAL INFORMATION

### **Potential Health Effects:**

**Eyes:** Contact with eye may cause temporary irritation

**Skin:** Contact with skin may cause temporary irritation

**Ingestion:** None.

**Inhalation:** Under normal conditions, bracket material is not expected to be inhaled.

**Chronic Health Effects:** None.

**Carcinogenicity:** None

**Mutagenicity:** None

**Medical Conditions Aggravated by Exposure:** None.

**Acute Toxicity Data:** None

**Reproductive Toxicity Data:** None

### **Specific Target Organ Toxicity (STOT):**

**Single Exposure:** May cause irritation to organ – respiratory tract.

**Repeated Exposure:** Prolonged or repeated exposure through inhalation may cause damage to lungs.

## 12. ECOLOGICAL INFORMATION

**Toxicity:** None

**Persistence and Degradability:** None

**Bio-accumulative Potential:** None

**Mobility in Soil:** None

**Other Adverse Effects:** None

**Results of PBT/vPvB Assessment:** None

## 13. DISPOSAL CONSIDERATIONS

**Regulations:** N/A

**Properties (Physical/Chemical) Affecting Disposal:** Disposal work should be done in accordance to local regulations.

**Waste Treatment Recommendations:** None.

## 14. TRANSPORT INFORMATION

**UN Identification Number:** Not listed.

**UN Proper Shipping Name:** N/A

**Transport hazard class(es):** N/A

**Packing Group:** N/A

**Special precautions for user:** None.

## 15. REGULATORY INFORMATION

### U.S. Federal Regulations

**Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):** N/A

**Toxic Substances Control Act (TSCA):** N/A

**Clean Water Act (CWA):** N/A

**Clean Air Act (CAA):** N/A

**Superfund Amendments and Reauthorization Act (SARA) Title III Information:** N/A

**SARA Section 311/312 (40 CFR 370) Hazard Categories:** N/A

<b>Immediate Hazard:</b>	None	<b>Pressure Hazard:</b>	None.
<b>Delayed Hazard:</b>	None	<b>Reactivity Hazard:</b>	None
<b>Fire Hazard:</b>	None		

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

<b>Components</b>	<b>C.A.S. #</b>	<b>WT %</b>
N/A	N/A	N/A

### State Regulations

**California Proposition 65:** This product contains the following chemical(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):

<b>Components</b>	<b>C.A.S. #</b>	<b>WT %</b>
N/A	N/A	N/A

### International Regulations

**Canadian Environmental Protection Act:** N/A

**Canadian Workplace Hazardous Materials Information System (WHMIS):** N/A

**European Inventory of Existing Chemicals (EINECS):** N/A

**European Chemical Agency (ECHA) REACH (Registration, Evaluation, Authorization and Restriction of Chemicals):** N/A

## 16. OTHER INFORMATION

Full text of Classification abbreviations used in Section 2 and 3: N/A

Date of SDS Preparation/Revision: June 12, 2013

Data Sources:

- 1) GHS Classification, Announced officially by National Institute of Technology and Evaluation (Japan)
- 2) Japan Industry Hygienic Society, Industrial Medicine (2007).
- 3) ACGIH – Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices (2008).
- 4) Industrial Toxicology Handbook (enlarged edition), Isiyaku Publication (1986).
- 5) Appropriate published regulatory documents i.e. California Prop 65, CWA, CAA, CERCLA etc.

N/A – Not Applicable.