



MATERIAL SAFETY DATA SHEET

Form WI04-11A Rev. 1

Part Number(s)
100-1XX, 100-2XX-XX,
100-3XX-XX, 100-4XX-XX

Product Name: **In-Ovation - C**
(Final coat on self-ligation clip)

Release Date: 9-20-2006

1. Product and Company Identification

Trade Name & Synonyms In-Ovation-C	MSDS Code Number Refer to part number
Chemical Name Chemical nature: Metal. Formula weight: 196.97	Manufacture / Distributor GAC International Inc.
C.A.S. Number 7440-57-5	Address 355 Knickerbocker Ave. Bohemia, NY USA 11716
Grades or Minor Variant Identities NA	Information Telephone Number 1-631-419-1700
Product Use (for Canada) Orthodontic bracket	Emergency Telephone Number 1-631-419-1700

2. Composition of Ingredients

Hazardous Components	OSHA/PEL	ACGIH/TLV	SARA SEC.313	C.A.S. Number	Exposure Limits	%
Gold	N/E	N/E	No	7440-57-5	NA	0-100

3. Hazard Identification

Emergency Overview NA					
Routes of Exposure	Signs and Symptoms	Single, Repeated, or Lifetime Exposure	Severity (Mild, Moderate, Severe)	Acute and Chronic Health Effect(s)	Target Organ(s)
Eye	May cause irritation.	NA	NA	NA	NA
Skin	May cause irritation and allergic reaction.	NA	NA	NA	NA
Inhalation	May cause irritation if exposure is prolonged or excessive.	NA	NA	NA	NA
Ingestion	No adverse effects expected.	NA	NA	NA	NA
Other	NA	NA	NA	NA	NA
Medical Conditions Aggravated by Exposure Respiratory disorders. May aggravate existing dermatitis or other skin ailments.					
Carcinogenicity (IARC, NTP) NTP: No IARC: No OSHA: No					
Potential Environmental Effects NA					

4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	Flush eyes with lukewarm water for 15 minutes.	If irritation persists call a physician.	NA
Skin	Flush with plenty of water.	If irritation persists call a physician	NA
Inhalation	Procedures normally not needed. If exposed to excessive levels of dust or fumes, remove to fresh air.	Seek medical attention.	NA
Ingestion	Procedures normally not needed.	If large quantities are ingested, seek medical advice.	NA
Other	NA	NA	NA
Note to Physicians (Treatment, Testing, and Monitoring) NA			



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5. Fire and Explosion Data

Flashpoint & Method: °C / °F N/A	Flammable (Explosive) Limits in Air LEL: N/A UEL: N/A	Autoignition Temperature N/A	Other NA
Flame Propagation or Burning NA	Properties Contributing to Fire Intensity NA	Flammability Classification Health-1 , Flammability-1 , Reactivity-0	
Extinguishing Media Use foam, carbon dioxide or dry chemical.		Extinguishing Media to Avoid NA	
Protection and Procedures for Firefighters Firefighters must wear full face, self-contained breathing apparatus with full protective clothing. Fumes from fire are hazardous.			
Unusual Fire and Explosion Hazards Avoid creating dust for potential dust ignition/explosions.			

6. Accidental Release Measures

Containment Techniques NA
Spill/Leak Clean-Up Procedures and Equipment Vacuum or scoop the material into a container for reclamation or disposal.
Evacuation Procedures NA
Special Instructions NA
Reporting Requirements NA

7. Handling and Storage

Handling Practices and Warnings Avoid and control operations which create dusting. Wash thoroughly after handling.
Storage Practices and Warnings Keep container closed. Avoid contact with eyes and skin.

8. Exposure Control/Personal Protection

Ventilation General exhaust is recommended. Use local exhaust ventilation as necessary to control dust/fume.	Other Engineering Controls NA	
Routes of Entry:	Personal Protective Equipment (PPE) for Normal Use:	PPE for Emergencies:
Eye/Face	Safety glasses with side shields.	NA
Skin	Gloves	NA
Inhalation	A NIOSH.MSHA-approved respirator as necessary.	NA
General Hygiene Considerations and Work Practices NA		
Protective Measures During Repair and Maintenance of Contaminated Equipment NA		
Other Protective Measures and Equipment NA		



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9. Physical and Chemical Characteristics

Appearance Yellow, soft ductile metal.		Odor No odor
Normal Physical State: <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Solid <input type="checkbox"/> ____ (Other)		Boiling Point 2800°C / °F Melting Point 1064°C / °F Freezing Point NA °C / °F
Specific Gravity or Density (H₂O=1) 19.31	Solubility in Water Insoluble	pH NA
Vapor Pressure (mm Hg @ 20°C) NA	Vapor Density (AIR= 1) N/A	Evaporation Rate (Butyl Acetate = 1) NA
Other % Volatiles by weight: N/A		

10. Stability and Reactivity Data

Incompatibility (Materials to Avoid) Gold plus ammonia may produce fulminate-like compounds that explode when dried. Finely divided gold and strong hydrogen peroxide solution may explode.	
Hazardous Products Produced During Decomposition Toxic fumes under fire conditions.	
Hazardous Polymerization <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> May Not Occur	Conditions to Avoid °C / °F None expected
Stability <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	Conditions to Avoid °C / °F NA

11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic or Reproductive Effects, or Structure Activity Data NA
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12. Ecological Information

Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements NA

13. Disposal Considerations

Regulations Waste disposal method: In accordance with Local, State and Federal Regulations. Has reclaim value as scrap.
Properties (Physical/Chemical) Affecting Disposal NA



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14. Transport Information

Regulated for shipping? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Proper Shipping Name In-Ovation- C	Packing Group NA
Do changes in quantity, packaging, or shipment method change product classification? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Hazard Class NA	Identification Number NA
Other NA		

15. Regulatory Information

Federal Regulations NA
International Regulations NA
Other HMIS RATINGS: Health: 1 Flammability: 1 Reactivity: 0

16. Other Information

Supplier Number: 4/100	Supplier Release: May 2005
N/A = not applicable. NA = not available, N/E = not established. N/D = not determined.	