



MATERIAL SAFETY DATA SHEET

Form WI04-11A Rev. 1

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

Product Name: In-Ovation- C
(Base 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 Formula: Rh | Manufacture / Distributor GAC International Inc. |
| C.A.S. Number 7440-16-6 | 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 | C.A.S. Number | Exposure Limits | % |
|----------------------|----------|-----------|---------------|-----------------|-------|
| Rhodium | 0.1mg/m3 | 1mg/m3 | 7440-16-6 | 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 | NA | NA | NA | Acute: May cause irritation. Chronic effects None known. | NA |
| Skin | NA | NA | NA | Acute: May cause irritation. Chronic effects: None known. | NA |
| Inhalation | NA | NA | NA | Acute: May cause irritation if exposure is prolonged or excessive. Chronic effects: None known. | NA |
| Ingestion | NA | NA | NA | Acute: No adverse effects expected. Chronic effects: None known. | NA |
| Other | NA | NA | NA | NA | NA |
| Medical Conditions Aggravated by Exposure None known. | | | | | |
| 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 plenty of water. | If irritation persists, call a physician. | NA |
| Skin | Flush with plenty of water. | If irritation persists, call a physician. | NA |
| Inhalation | Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, oxygen should be administered by qualified personnel. | Call a physician. | 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 | |
| Protection and Procedures for Firefighters Firefighters must wear full face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. | | | |
| Unusual Fire and Explosion Hazards Flammable solid. Avoid creating dust for potential dust ignition/explosions. | | | |

6. Accidental Release Measures

| |
|---|
| Containment Techniques NA |
| Spill/Leak Clean-Up Procedures and Equipment Wear appropriate respiratory and protective equipment specified in section 8. Vacuum or scoop the spilled 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 Wash thoroughly after handling, keep container closed, and keep away from heat, sparks and flame. |
| Storage Practices and Warnings Store in a cool, dry location away from incompatible materials. Avoid contact with eyes, skin and clothing. Avoid breathing dust, minimize dust generation and exposure. Use only with adequate ventilation. Do not eat, drink, or smoke in work area. |

8. Exposure Control/Personal Protection

| | | |
|--|--|-----------------------------|
| Ventilation General exhaust recommended. Use local exhaust ventilation as necessary to control any air contaminants to within their PELs or TLVs during the use of this product. | Other Engineering Controls NA | |
| Routes of Entry: | Personal Protective Equipment (PPE) for Normal Use: | PPE for Emergencies: |
| Eye/Face | Safety glasses. | NA |
| Skin | Protective gloves: Rubber | NA |
| Inhalation | Use NIOSH-approved dust mask if exposure exceeds TLV. | NA |
| General Hygiene Considerations and Work Practices NA | | |
| Protective Measures During Repair and Maintenance of Contaminated Equipment NA | | |
| Other Protective Measures and Equipment Body protection as necessary to prevent skin contact. | | |



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9. Physical and Chemical Characteristics

| | | |
|---|---|---|
| Appearance Black powder or silver colored solid. | | 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 3727 °C / °F Melting Point 1966°C / °F Freezing Point NA °C / °F |
| Specific Gravity or Density (H₂O=1) 12.4 | Solubility in Water Insoluble | pH N/D |
| Vapor Pressure (mm Hg @ 20°C) NA | Vapor Density (AIR= 1) NA | Evaporation Rate (Butyl Acetate = 1) NA |
| Other NA | | |

10. Stability and Reactivity Data

| | | |
|--|--|--|
| Incompatibility (Materials to Avoid) Strong oxidizing agents and halogens. Violent reactions with ClF ₃ and OF ₂ . | | |
| Hazardous Products Produced During Decomposition None expected. | | |
| 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

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|--|
| Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic or Reproductive Effects, or Structure Activity Data NA |
|--|

12. Ecological Information

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

13. Disposal Considerations

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|--|
| Regulations Waste disposal method: Retain for recovery of rhodium or dispose of in accordance with state, federal and local regulations. |
| Properties (Physical/Chemical) Affecting Disposal NA |

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 | | |



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15. Regulatory Information

Federal Regulations

NA

International Regulations

NA

Other

NA

16. Other Information

Supplier Number: 4/100

Supplier Release: February 2003

N/A = not applicable. NA = not available, N/E = not established. N/D = not determined.