

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Name of Manufacturer:

Inman Orthodontic Laboratories Inc
3953 NW 126 Ave Coral Springs FL 33065
800-289-0118 954-340-8477

Product Name: Inman Power Component
Product Number: IPC

Effective Date: 10/01/2013

SECTION 2. HAZARDOUS IDENTIFICATION

Potential Health Effects:

Primary Routes of Entry

- Inhalation
- Skin Contact
- Eye Contact
- Ingestion

Medical Conditions Aggravated by Exposure

- None Known

Human Effects and Symptoms of Overexposure:

No toxic effects are expected from the alloy in the inert solid form. Excessive inhalation of fumes or dusts from burning, welding, grinding, and cutting can produce an acute reaction known as metal fume fever. However, studies of workers melting or working alloys containing these elements have been found to have no increased risk of cancer.

Carcinogenicity

Nickel and Chromium must be considered possible carcinogens under OSHA 29.

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SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

The Occupational Health and Safety Administration (OSHA) publish Permissible Exposure Limits (PEL) and the American Chemical Governmental Industrial Hygienists (ACGIH) publishes Threshold Limit Values (TLV) for stainless steels. Values shown below are applicable to major component elements. These elements may appear in some or various combinations in any particular grade of stainless steel.

*See attached

SECTION 4. FIRST AID MEASURES

Eye Contact

If eyes become irritated from dust or fumes, wash with large quantities of water. Seek medical attention when necessary.

Skin Contact

If irritation develops, remove contaminated clothing immediately and wash the contaminated skin with soap and water. Seek medical attention if irritation persists.

Inhalation

Seek medical attention if necessary.

Ingestion

See medical attention when necessary.

SECTION 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

None

Special Fire Fighting Procedures

None

Unusual Fire / Explosion Hazards

Stainless Steel Products in the form shipped are not considered combustible. During subsequent processing (cutting, welding, grinding, etc.), the generation of dust in high concentration may present fire and explosion hazards.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill and Leak Procedures

Not Applicable

SECTION 7. HANDLING & STORAGE

Handling / Storage Precautions

Not applicable

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Industrial Hygiene / Ventilation Measures

Adequate ventilation is required when welding, cutting, grinding, or burning this product.

Respiratory Protection

Dust / fume respirators are required if the fume levels exceed TLV values.

Additional Protective Measures

None

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

Form – Solid

Odor – Odorless

Melting Point – 2500 °F – 2800 °F

Density – .28 lb / inch³

Solubility in Water – Insoluble

Not applicable – Flash Point, Boiling Point, Vapor Pressure, Vapor Density, Evaporation, % Volatiles by Volume

SECTION 10. STABILITY & REACTIVITY

Hazardous Reactions – Hazardous polymerization will not occur.

Stability – Stable

Materials to Avoid – Insoluble in water and alkalines, corrodes in acids and certain salts.

Conditions to Avoid – None

Hazardous Decomposition Products – Metal fumes

SECTION 11. TOXICOLOGICAL INFORMATION

Not applicable

SECTION 12. ECOLOGICAL INFORMATION (non-mandatory)

Not applicable

SECTION 13. DISPOSAL CONSIDERATIONS (non-mandatory)

Waste Disposal Method

Solids – Recycle as scrap

Dusts – Dispose of dusts according to local, state, and federal regulations.

SECTION 14. TRANSPORT INFORMATION (non-mandatory)

Not applicable

SECTION 15. REGULATORY INFORMATION (non-mandatory)

Not applicable

SECTION 16. OTHER INFORMATION (non-mandatory)

HMIS Rating:

- **Health** –
- **Flammability** –
- **Physical Hazard** –

0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe

* = Chronic Health Hazard

Composition / Information On ingredients

| Hazardous Components | % | CAS# | OSHA PEL (mg/m ³) ¹ | ACGIH TLV (mg/m ³) |
|----------------------|-----------|-----------|--|--------------------------------|
| Carbon (C) | 0.055 | 7440-44-0 | 3.5 | 3.5 |
| Chromium (Cr) | 18.61 | 7440-47-3 | 1 | 1 |
| Copper (Cu) | 0.209 | 7440-50-8 | 1 | 1 |
| Iron (Fe) | Remainder | 7439-89-6 | - | - |
| Manganese (Mn) | 1.114 | 7439-96-5 | 5 | 5 |
| Molybdenum (Mo) | 0.073 | 7439-98-7 | 15 | 10 |
| Nickel (Ni) | 8.006 | 7440-02-0 | 1 | 1.5 |
| Silicon (Si) | 0.313 | 7440-21-3 | 10 ² | 10 |
| Sulfur (S) | 0.006 | 7704-34-9 | - | - |
| Phosphorus (P) | 0.036 | 7723-14-0 | 0.1 | 0.1 |