SAFETY DATA SHEET

SECTION 1. INDENTIFICATION

Great Lakes Orthodontics
200 Cooper Ave
Tonawanda, NY 14150

716-871-1161
800-828-7626
CHEMTREC: 800-424-9300

Product Name: Universal Expansion Screw – Nickle Free
Product Number: 120-012

Effective Date: 10/21/13

SECTION 2. HAZARDOUS IDENTIFICATION

Potential Health Effects:

Primary Routes of Entry

- Inhalation
- Skin Contact
- Eye Contact

Human Effects and Symptoms of Overexposure:

Skin

Unlikely to cause skin irritation or injury. Molten material causes thermal burns. This material is unlikely to pass into the body through the skin.

Ingestions

Swallowing this material is not likely to be harmful.

Inhalation

This material is a dust or may produce dust. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.

General Effects of Exposure

Signs and symptoms of exposure to this material through breathing, swallowing, and / or passage of the material through the skin may include: irritation (nose, throat, airways).

Chronic Effects or Exposure

Thermal processing of this product can produce fumes and / or vapors. Components of these may vary with processing times and temperatures and therefore specific composition cannot be predicted. These fumes and / or vapors may produce eye, skin, and / or respiratory tract irritation. With repeated and prolonged exposure at high concentrations, these fumes and / or vapors could cause central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, and headache).

Carcinogenicity

No carcinogenic substances as defined by IARC, NTP and / or OSHA.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components

Carbon - < 0.1
Silicon - < 1.0
Manganese – 16 - 20
Chromium – 16 – 20
Molybdenum – 1.8 – 2.5
Nickel - < 0.3
Phosphorus - < .05
Sulfur - < .05
Vanadium - < .2
Nitrogen - .7 – 1.0
The rest of the composition is made up of iron.

SECTION 4. FIRST AID MEASURES

Inhalation

First aid is not normally required. If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention.

Ingestion

First aid is not normally required. If symptoms develop, seek medical attention.

Note to Physician

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: lung (for example, asthma – like conditions).

SECTION 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Not applicable

Special Fire Fighting Procedures

Not applicable

Unusual Fire / Explosion Hazards

Not applicable.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill and Leak Procedures

Not applicable.

SECTION 7. HANDLING & STORAGE

Storage period

2 years.

Handling

No adverse health effects are anticipated from the product at room temperature. However, at process temperatures, the product can emit fumes and vapors which may cause irritation of the eyes and respiratory tract. Any exposure will depend on exhaust ventilation provided for the process.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation Measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects)

Respiratory Protection

If overexposure has been determined or documented, a NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specific conditions. Engineering or administrative controls should be implemented to reduce exposure.

Eye Protection

Wear safety glasses in compliance with OSHA regulations.

Skin and Body Protection

Wear normal clothing covering arms and legs. Other protective equipment: Consult your safety products supplier for proper protective equipment to use for thermal processing operations.

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

No data.

SECTION 10. STABILITY & REACTIVITY

Hazardous Reactions – Hazardous polymerization will not occur.
Stability – Stable
Materials to Avoid – None known
Conditions to Avoid – None known
Hazardous Decomposition Products – May form: Carbon Dioxide and Carbon Monoxide, toxic fumes.

SECTION 11. TOXICOLOGICAL INFORMATION

No data.

SECTION 12. ECOLOGICAL INFORMATION (non-mandatory)

No data.

SECTION 13. DISPOSAL CONSIDERATIONS (non-mandatory)

Waste Disposal Method

Dispose of in accordance with all applicable local, state, and federal regulations. For assistance with your waste management needs: including disposal, recycling and waste stream reduction, contact Ashland Distribution Company, 800-637-7922.

SECTION 14. TRANSPORT INFORMATION (non-mandatory)

- **Land Transport (DOT):** 49 CFR 172.101
- **DOT Description: Non-regulated by the DOT**
- **Container / Mode:** 55 Gallon Drum / Truck Package
- **NOS Component:** None
- **RQ (Reportable Quantity):** 49 – CFR 172.101
- **Other Transportation Information:** The DOT Transport Information may vary with the container and mode of shipment.

SECTION 15. REGULATORY INFORMATION (non-mandatory)

United States Federal Regulations

TSCA – (Toxic Substance Control Act) Status TSCA (United States) the intentional ingredients of this product are listed.

CERCLA – 40 CFR 302.4 (a) none listed

SARA 302 – Components 40 CFR 355 Appendix A None

SECTION 311/312 Hazard Class – 40 CFR 370.2 Immediate X

SARA 313 – Components 40 CFR 372.65 None

OSHA – Process Safety Management 29 CFR 1910 None listed

EPA – Accidental Release Prevention 40 CFR 69 None listed

INTERNATIONAL REGULATIONS – Inventory Status: DSL (Canada) The International ingredients of this produce are listed. State and Local Regulations: California Proposition 65 None.

SECTION 16. OTHER INFORMATION (non-mandatory)

HFPA Rating:

- **Health –** 1
- **Flammability –** 1
- **Physical Hazard –** 0

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

* = Chronic Health Hazard