

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION



Great Lakes Orthodontics
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Tonawanda, NY 14150

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800-828-7626
CHEMTREC: 800-424-9300

Product Name: Model Supporting Arms, Stainless Steel Spring Wire
Product Number: 175-100

Effective Date: 7/18/12

SECTION 2. HAZARDOUS IDENTIFICATION

- Melted product is flammable and produces intense heat and dense smoke during burning. Irritating gases / fumes may be given off during burning or thermal decomposition. Contact with hot material will cause thermal burns.

Potential Health Effects:

Primary Routes of Entry

- Inhalation
- Skin Contact
- Eye Contact

Medical Conditions Aggravated by Exposure

- Respiratory disorders

Human Effects and Symptoms of Overexposure:

Skin

Acute skin, contact with heated material can cause thermal burns.

Ingestions

Acute ingestions, ingestion is not a typical route of industrial exposure.

General Effects of Exposure

Acute effects of exposure, gases and fumes evolved during the thermal processing or decomposition of this material may irritate the eyes, skin, or respiratory tract.

Chronic Effects or Exposure

Not expected to cause any adverse chronic health effects.

Carcinogenicity

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

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

SECTION 4. FIRST AID MEASURES

Eye Contact

In case of contact, flush eyes with plenty of lukewarm water.

Skin Contact

Cool melted product on skin with plenty of water. Do not remove solidified product. Get medical attention if thermal burn occurs.

Inhalation

Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.

Ingestion

Get medical attention.

SECTION 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Water fog, Dry chemical, Carbon Dioxide (CO₂)

Special Fire Fighting Procedures

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.

Unusual Fire / Explosion Hazards

Toxic and irritating gases / fumes may be given off during burning or thermal decomposition.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill and Leak Procedures

If molten, allow material to cool and place into an appropriate marked container for disposal. Sweep up and shovel into suitable containers for disposal.

SECTION 7. HANDLING & STORAGE

Storage temperature

Maximum: 49 °C (120.2 °F)

Storage period

Containers should be tightly closed to prevent contamination with foreign materials and moisture.

Handling / Storage Precautions

Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling. Avoid creating dust.

Further Info on Storage Conditions

Protect equipment (e.g.: storage bins, conveyors, dust collectors) with explosion vents.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Country specific exposure limits have not been established or are not applicable.

Industrial Hygiene / Ventilation Measures

General dilution and local exhaust as necessary to control airborne vapors, mists, dusts, and thermal decomposition products below appropriate airborne concentration standards / guidelines, especially during cutting, grinding, and high heat operations.

Respiratory Protection

In the case of dust or aerosol formation use respirator with an approved filter.

Hand Protection

Wear heat resistant gloves when handling molten material.

Eye Protection

Safety glasses with side-shields

Skin and Body Protection

No special skin protection requirements during normal handling and use.

Additional Protective Measures

Employees should wash their hands and face before eating, drinking, or using tobacco products.

Educate and train employees in the safe use and handling of this product. Purging's should be collected as small flat thin shapes or thin strands to allow for rapid cooling.

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

- **Form** – Solid
- **Appearance** – Sheets
- **Color** – Tint
- **Odor** – Odorless
- **PH** – Not Applicable
- **Flash Point** - > 450 °C (> 842 °F)
- **Lower Explosion Limit** – Not Established
- **Upper Explosion Limit** – Not Established
- **Vapor Pressure** – Not Applicable
- **Solubility in Water** – Insoluble
- **Auto-ignition Temperature** - > 450 °C (> 842 °F)
- **Decomposition Temperature** – Approximately 380 °C (716 °F)
- **Softening Point** – Begins at 70 °C (158 °F)
- **Bulk Density** – Approximately 608.7 kg/m³

SECTION 10. STABILITY & REACTIVITY

Hazardous Reactions – Hazardous polymerization does not occur.

Stability – Stable

Materials to Avoid – None known

Conditions to Avoid – None known

Hazardous Decomposition Products – By fire and thermal decomposition: Phenol, Carbon Oxides, Hazardous decomposition products due to incomplete combustion.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicity Data for Copolyester:

Acute oral toxicity

- LD60: > 3,200 mg/kg (Rat, Male)
- LD50: > 3,200 mg/kg (Mouse, Male)

Acute dermal toxicity

- LD50: > 1,000 mg/kg (Guinea Pig)

Skin Irritation

- Guinea pig, slightly irritating

Eye Irritation

- Rabbit, slightly irritating
- Guinea pig, non-irritating

SECTION 12. ECOLOGICAL INFORMATION (non-mandatory)

Ecological Data for Copolyester:

Acute and Prolonged Toxicity to Fish

- LC50: > 100 mg/l (Fathead minnow (*Pimephales promelas*), 96 h)

Acute Toxicity to Aquatic Invertebrates

- LC50: > 100 mg/l (Water flea (*Daphnia magna*), 96 h)

SECTION 13. DISPOSAL CONSIDERATIONS (non-mandatory)

Waste Disposal Method

Waste disposal should be in accordance with existing federal, state, and local environmental control laws.

SECTION 14. TRANSPORT INFORMATION (non-mandatory)

- **Land Transport (DOT):** Non - regulated
- **Sea Transport (IMDG):** Non – regulated
- **Air Transport (ICAO/IATA):** Non – regulated

SECTION 15. REGULATORY INFORMATION (non-mandatory)

United States Federal Regulations

OSHA Hazcom Standard Rating: Non-Hazardous

US. Toxic Substances Control Act: Listed on the TSCA Inventory

US. EPA Cercla Hazardous Substances (40 CFT 302): Components – None

SARA Section 311/312 Hazard Categories: Non-Hazardous under Section 311/312

US. EPA Emergency Planning and Community Right-to-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A):

Components – None

US. EPA Emergency Planning and Community Right-to-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) – Supplier Notification Required:

Components – None

US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261): Under RCRA, it is the responsibility of the person who generates a solid waste, as defined in 40 CFR 261.2, to determine if that waste is a hazardous.

State Right – To – Know Information

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the Safety Data Sheet may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

The concentrations reported below in units of parts per million (PPM) or parts per billion (ppb) are maximum values.

Massachusetts, New Jersey or Pennsylvania Right-To-Know Substance lists:

- **Weight Percent:** 1 – 100%
- **Components:** Copolyester
- **CAS – NO.:** CAS # is a trade secret

SECTION 16. OTHER INFORMATION (non-mandatory)

HMIS Rating:

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

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

* = Chronic Health Hazard