Material Safety Data Sheet

Product Name: Nola Dry Field System – Lip & Cheek retractor, Replacement Tips, Safety latch

Date Prepared: 3/25/09

SECTION I  IDENTIFICATION

Manufacturer: Great Lakes Orthodontics, Ltd.
200 Cooper Avenue
Tonawanda, NY 14150

Phone: 1-800-828-7626 (U.S. & Canada)
716-871-1161 (Worldwide)
Fax: 716-871-0550
Email: info@greatlakesortho.com

Product Numbers:
300-401

24-Hour Emergency Phone Number:
CHEMTREC: 800-424-9300

SECTION II  HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Hazardous Components (Specific Chemical Identity: Common Name(s): OSHA PEL ACGIH TLV % (Optional)
Acetal (Polybutylene, Terephtahalate, Thermoplastic, Polyester) CAS# 30965-26-5
Nuisance / inert dust OSHA PEL - 15mg/cu m total 5mg/cu m respirable
Nuisance particulate ACGIH - 10mg/cu m total 3mg/cu m respirable

SECTION III  PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: N/A
Vapor Pressure (mm Hg): <0.001mm Hg
Vapor Density: (AIR = 1): N/A
Solubility in Water: <0.001 GPL

Specific Gravity (H2O – 1): 1.3 to 1.65
Melting Point: N/A
Evaporation Rate (Butyl Acetate – 1):

SECTION IV  FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): >93º C (>200º F) – Tag closed cup
Flammable Limits: LEL – UEL –
Extinguishing Media: Water spray, carbon dioxide, dry chemical
Special Fire Fighting Procedures: Wear positive-pressure, self-contained breathing apparatus and protective fire fighting clothing.
Stability: Stable

Conditions to avoid: Temperatures over 550º F or 288º C and prolonged exposure above 520º F and 271º C
Incompatibility (Material to avoid): Strong bases
Hazardous Products of Combustion: Carbon dioxide, Carbon Monoxide
Hazardous Decomposition or Byproducts: Aldehydes, Ketones, Osters, Acids, Alcohol’s, Butadlene, Tetrahydrofuran, Toluene, Benzoic Acid, Terephtalic Acid
Hazardous Polymerization: Will not occur

SECTION VI  HEALTH HAZARD DATA

Route(s) of entry:
Inhalation – Vapors are unlikely due to physical properties.
Skin – Solid may cause irritation due to mechanical action.
Ingestion – Solid may cause choking if swallowed. Oral toxicity is believed to be very low, consider physiologically inert.
Eyes - Solid may cause irritation due to mechanical action.

Emergency and First Aid Procedures:
Inhalation: Remove to fresh air. Seek medical attention if difficulty in breathing occurs.
Eyes: Irrigate immediately with water for at least five minutes, mechanical irritation only, seek medical attention.
Skin: Wash off in flowing water or shower.
Ingestion: If significant quantity has been swallowed, give two glasses of water to dilute. Seek medical attention.

Steps to be taken in case material is released or spilled: Sweep up and discard
Waste Disposal Method: Bury in landfill or burn in adequate incinerator in accordance with applicable local, state, and federal regulations.

Precautions to be taken in handling and storing:
Other Precautions: The glass particles in this product are wetted by the polymer system. Residual glass (<1%) may be present and cause mechanical eye, skin, and respiratory irritation. Operations involving grinding or machining should be reviewed to assure that particulate levels are kept below recommended standards.

SECTION VII  PRECAUTIONS FOR SAFE HANDLING AND USE

Respiratory Protection (Specific Type): None required.
Ventilation:
Local exhaust: Good general ventilation should be sufficient.

Eye Protection: Safety glasses

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24-Hour Emergency Phone Number:
CHEMTREC: 800-424-9300

SECTION II  HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Hazardous Components (Specific Chemical Identity: Common Name(s), OSHA PEL, ACGIH TLV, % (Optional)
Polypropylene Homopolymer CAS # 9003-07-0

SECTION III  PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: N/A
Vapor Pressure (mm Hg.): N/A
Vapor Density: (AIR = 1): N/A
Solubility in Water: NIL
Specific Gravity (H2O – 1): 0.88-0.92
Melting Point: >160º C (320º F)
Evaporation Rate (Butyl Acetate – 1): N/A

SECTION IV  FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 329º C / 675º F
Auto Ignition: 357º C / 675º F
Flammable Limits: N/A
Extinguishing Media: Water, carbon dioxide, or dry chemical
Special Fire Fighting Procedures: Standard procedures for class A fires.
Unusual Fire and Explosion Hazard: None
SECTION V  REACTIVITY DATA

Stability: Stable

Conditions to avoid:

Incompatibility (Material to avoid): Avoid contact with strong oxidizing agents.

Hazardous Products of Combustion: Carbon dioxide, Carbon Monoxide

Hazardous Polymerization: Will not occur

SECTION VI  HEALTH HAZARD DATA

Route(s) of entry:
No known health hazards.

Emergency and First Aid Procedures: Molten Resins
Skin: Immerse under a running stream of water until cooled. Do NOT attempt to remove resin from skin. Removal can result in tissue damage. Get immediate medical attention.

SECTION VII  PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled: Sweep up spilled material for use or disposal. Keep walking surfaces free of spilled material to avoid slipping hazard.

Waste Disposal Method: Incineration of waste material in a permitted facility in accordance to local, state, and federal regulations is the recommended disposal method. Land filling in a licensed facility in accordance to local, state, and federal regulations is a suitable alternative.

Other Precautions: Keep away from sparks and open flame. Do not store this material near any oxidizing material, may cause strong reaction. Keep below 60º C (140º F) for quality control. Store in sprinkled warehouse.

SECTION VIII  CONTROL MEASURES

Respiratory Protection (Specific Type): N/A
Ventilation: N/A
Eye Protection: Safety glasses
Work / Hygienic Practices: Eyewash fountains and safety showers should be easily accessible.

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Product Numbers:  
300-401

SECTION II  HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Hazardous Components (Specific Chemical Identity: Common Name(s) Common Name(s):  
> 98% Polypropylene Random Copolymer CAS #: 009010-79-1

< 2% Additives

SECTION III  PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point:  N/A  
Specific Gravity (H2O – 1):  .9

Vapor Pressure (mm Hg.): Negligible  
Melting Point:  N/A

Vapor Density: (AIR = 1):  N/A  
Evaporation Rate (Butyl Acetate – 1):  N/A

Solubility in Water: Negligible

SECTION IV  FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used):  N/A

Flammable Limits:  LEL –  UEL –

Extinguishing Media:  Water spray and dry chemical

Hazardous Combustion Products:  Carbon Monoxide and Carbon Dioxide

Special Fire Fighting Procedures:  Wear positive-pressure, self contained breathing apparatus and protective fire fighting clothing.
SECTION V  REACTIVITY DATA

Stability: Stable
- Conditions to avoid:

Incompatibility (Material to avoid): Material can react with strong oxidizing agents

Hazardous Decomposition or Byproducts:
- Hazardous Polymerization: Will not occur
- Conditions to avoid:

SECTION VI  HEALTH HAZARD DATA

Route(s) of entry:
- Eyes – Solid may cause irritation due to mechanical action.
- Skin – Solid may cause irritation due to mechanical action.
- Ingestion – Solid may cause choking if swallowed. Oral toxicity is believed to be very low, consider physiologically inert.

Emergency and First Aid Procedures:
- Inhalation: Move to fresh air, seek medical attention if symptoms persist.
- Eyes: Irrigate immediately with water for at least five minutes, mechanical irritation only
- Skin: Wash off in flowing water or shower
- Ingestion: No adverse effects anticipated by this route of exposure

SECTION VII  PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled: Sweep up and discard.

Waste Disposal Method: Burn in adequate incinerator in accordance with applicable local, state, and federal regulations.

Precautions to be taken in handling and storing:
- Other Precautions:

SECTION VIII  CONTROL MEASURES

Respiratory Protection (Specific Type): None required.

Ventilation:
- Local exhaust: Good general ventilation should be sufficient.
- Mechanical (General):

Eye Protection: Safety glasses

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Material Safety Data Sheet

Product Name: Silicone Tubing for Great Lakes Nola Dry Field System

Date Prepared: 4/23/09

SECTION I  IDENTIFICATION

Manufacturer:
Great Lakes Orthodontics, Ltd.
200 Cooper Avenue
Tonawanda, NY 14150

Product Numbers:
300-401

24-Hour Emergency Phone Number:
Chemtrec: 800-424-9300

SECTION II  HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Hazardous Components (Specific Chemical Identity: Common Name(s).
None Found

OSHA PEL ACGIH TLV %(Optional)

SECTION III  PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: None
Specific Gravity (H2O – 1): NA
Vapor Pressure (mm Hg.): NA
Melting Point: NA
Vapor Density: (AIR = 1): NA
Evaporation Rate (Butyl Acetate – 1): NA
Solubility in Water: No
Appearance and Odor: Translucent white, no odor.

SECTION IV  FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 600º F (315º C) / COC
Flammable Limits: Not determined
LEL – UEL –
Extinguishing Media: Carbon Dioxide (CO2). Water. Water fog (or spray). Dry chemical. Foam.
Special Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. If large amount involved, evacuate area.

SECTION V  REACTIVITY DATA

Unusual Fire and Explosion Hazard: None.
Stability: Stable
Conditions to avoid:
Incompatibility (Material to avoid):
Hazardous Decomposition or Byproducts:
Hazardous Polymerization:
Conditions to avoid:
Comments: When heated to temperatures above 150º C in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer causing hazard, a know skin and respiratory sensitizer, and an irritant to the eyes, nose, throat, skin, and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for formaldehyde.
Health Hazards (Acute and Chronic):

**Inhalation** – None Known.

**Skin** – A single prolonged exposure (24 to 48 hours) causes no known adverse affect. Washing after meal time and end of shift is adequate.

**Eye** – Direct eye contact may cause temporary discomfort with a mild redness and dryness similar to windburn.

**Ingestion** – Small amounts transferred to the mouth by fingers during use, etc. should not injure. Swallowing large amounts may cause digestive discomfort.

**Signs and Symptoms of Exposure:** None Known.

**Medical conditions generally aggravated by exposure:** None Known

**Emergency and First Aid Procedures:**

- **Inhalation:** No first aid should be needed.
- **Eyes:** Immediately flush with water.
- **Skin:** No first aid should be needed.
- **Ingestion:** No first aid should be needed.

**Steps to be taken in case material is released or spilled:** Collect and contain for salvage or disposal. Observe all personal protection equipment recommendations described in section 4 and 8. Local, state, and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the regulations are applicable.

**Waste Disposal Method:**

- **Precautions to be taken in handling and storing:** No special precautions
- **Other Precautions:** Avoid eye contact. Use reasonable care.

**Respiratory Protection (Specific Type):** None should be needed.

**Ventilation:**

- **Local exhaust:** None should be needed

- **Mechanical (General):** Recommended

**Protective Gloves:** No special protection needed

**Eye Protection:** Use proper protection – safety glasses as a minimum.

**Other Protective Clothing or Equipment:** None

**Work / Hygienic Practices:** N/A

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