

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION



Great Lakes Orthodontics
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CHEMTREC: 800-424-9300

Product Name: Wax
Product Number: 260-031, 260-032, 260-033, 260-034, 260-035

Effective Date: 10/23/13

SECTION 2. HAZARDOUS IDENTIFICATION

Potential Health Effects:

Primary Routes of Entry

- Inhalation

Medical Conditions Aggravated by Exposure

- Breathing disorders.

Human Effects and Symptoms of Overexposure:

Skin

Skin contact with hot material may result in severe burns.

Eyes

Contact with hot product will cause burns to the eyes.

Inhalation

At elevated temperatures dense fumes may develop which can cause respiratory tract irritation and other breathing disorders.

Ingestions

No significant adverse effects are anticipated. If swallowed in large quantities, this material can obstruct the intestine.

Chronic Effects or Exposure

Solid Product – Acute and chronic health effects are not expected as long as good industrial hygiene and safety precautions are followed.

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

Check for and remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low pressure water for at least 15 minutes. Get medical attention if irritation persists. HOT MOLTEN product – Cool burns with plenty of low pressure water. Get immediate medical attention.

Skin Contact

Wash with soap and water. Get medical attention if irritation develops or persists. HOT MOLTEN product – Immediately cool skin with water and cold packs for at least 15 minutes. Do NOT put ice directly on the skin. Do NOT attempt to remove solidified wax from the skin as severe tissue damage may result. Get immediate medical attention. See Note to Physician.

Inhalation

Remove to fresh air. If breathing is difficult, give oxygen and/or artificial respiration.

Ingestion

Not an ingestion hazard under anticipated conditions for use. For accidental ingestion – If conscious, drink one to two glasses of water (8 - 16oz.). Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person.

Note to Physicians

For HOT MOLTEN or HOT LIQUID product – Material should not be forcibly pulled from the skin. Mineral oil may be used to loosen and soften the material.

SECTION 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Water fog, Foam, Dry chemical, Carbon Dioxide (CO₂)

Special Fire Fighting Procedures

Wear protective clothing to prevent contact with skin and eyes. Do not release runoff from fire control methods to sewers or waterways. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

Unusual Fire / Explosion Hazards

None.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill and Leak Procedures

Stop spill at source. Dike area and contain. Clean up remainder with absorbent materials such as sand or vermiculite. Mop up and dispose of.

SECTION 7. HANDLING & STORAGE

Handling Precautions

Use normal precautions when handling hot molten liquid solutions. Do not breathe fumes or vapor from heated material. Do not allow hot material to contact skin. With the product at ambient temperatures, avoid creating and breathing dust. Wash thoroughly after handling.

Storage Precautions

Store at ambient temperatures in closed containers. This material can catch fire if overheated. Do not heat this material above the flash point. Keep away from flame and open electrical coils.

Further Info on Storage Conditions

None.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Industrial Hygiene

Avoid breathing dust, vapor, or mist. Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking, or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.

Ventilation Measures

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits (see below). An eye wash station and safety shower should be located near the work-station.

Respiratory Protection

The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH approved organic vapor respirator equipped with a dust / mist prefilter should be used.

Hand Protection

When handling product at elevated temperatures, use heat resistant gloves. With product at ambient temperatures, use disposable nitrile, neoprene or butyl rubber gloves with repeated or prolonged use.

Eye Protection

Use a full-face shield and safety glasses if handling heated material. With product at ambient temperatures, use safety glasses equipped with side shields.

Skin and Body Protection

Prevent skin contact when handling heated material. Use insulated, heat-resistant clothing such as an apron or slicker suit.

Additional Protective Measures

Make emergency eyewash stations, safety / quick drench showers, and washing facilities available in work area.

Occupational Exposure Guidelines

Substance – Paraffin Wax Fume ACGIH STEL: 2 mg/m³ NISOH TWA: 2 mg/m³

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

- **Form** – Solid
- **Color** – Light Blue
- **Odor** – Mild odor
- **Flash Point** - 465 °F (240 °C)
- **Boiling Point** - > 450 °F
- **Freezing / Melting Point**– Softening Point by Ring and Ball Apparatus ASTM E28-58T: 145 °F
- **Lower Explosion Limit** – Not Established
- **Upper Explosion Limit** – Not Established
- **Specific Gravity (H₂O=1, @ 4 °C)** – 0.97
- **Vapor Density (Air = 1)** – Not Available
- **Solubility in Water** – Insoluble in cold water
- **% Volatile** – Negligible

SECTION 10. STABILITY & REACTIVITY

Hazardous Reactions – Hazardous polymerization will not occur.

Stability – Stable at room temperature in closed containers under normal storage and handling conditions.

Materials to Avoid – None known

Conditions to Avoid – Heat and open flames.

Hazardous Decomposition Products – Thermal oxidative decomposition can produce CO and CO₂.

SECTION 11. TOXICOLOGICAL INFORMATION

No evidence of adverse effects from available information.

SECTION 12. ECOLOGICAL INFORMATION (non-mandatory)

No evidence of adverse effects from available information.

SECTION 13. DISPOSAL CONSIDERATIONS (non-mandatory)

Waste Disposal Method

Use safety containers for disposal. Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

SECTION 14. TRANSPORT INFORMATION (non-mandatory)

DOT Transportation Data (49 CFR 172.101)

Shipping Name: Non-regulated

SECTION 15. REGULATORY INFORMATION (non-mandatory)

United States Federal Regulations

RCRA Hazardous Waste Number

Not listed (40 CFR 261.33)

RCRA Hazardous Waste Classification (40 CFR 261)

Not classified

CERCLA Hazardous Substance (40 CFR 302.4)

Listed / unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112: Not listed.

SARA 311 / 312 Codes

No hazard categories identified.

SARA Toxic Chemical (40 CFR 372.65)

No components were identified.

TSCA Inventory Status

All ingredients listed on TSCA inventory requirements.

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