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: Whale Tails
Product Number: 255-035

Effective Date: 4/21/17

SECTION 2. HAZARDOUS IDENTIFICATION

Components are not considered hazardous by OSHA Standards. No signal word, hazard statement, or pictogram is required.

Potential Health Effects:

Primary Routes of Entry

- Eye Contact

Human Effects and Symptoms of Overexposure:

Skin

Essentially nonirritating to skin. Mechanical injury only. Molten material may burn skin.

Eyes

Solid or dust causes irritation or corneal injury due to mechanical action.

Inhalation

Dust may cause irritation to upper respiratory tract. At room temperature, exposure to vapors are unlikely due to physical properties, normal processing temperatures may generate vapors, which may cause irritation if ventilation is inadequate.

Ingestions

Single does oral LD-50 has not been determined. Single dose oral toxicity is believed to be very low. Now hazards anticipated from ingestion incidental to industrial exposure.

Acute Health Hazard – None Known
Chronic Health Hazard – None Known
Medical conditions generally aggravated by exposure – None Known

Carbon Black, CAS #1333-86-4

- OSHA -(PEL, 8hr) 3.5 mg/m³ (FRL_TWA)
- OSHA – (PEL, 8hr) 3.5 mg/m³ (TL_PEL)
- ACGIH – TWA: 3.5 mg/m³ (Inhalable Fraction); Notations: Not classifiable as a Human Carcinogen Formaldehyde, CAS # 50-00-0.

Formaldehyde, CAS #50-00-00

- OSHA – Permissible Exposure Limit 0.75 ppm (TWA)
  Permissible Exposure Limit 2 ppm (STEL
- ACGIH – Threshold Limit Value 0.3 ppm (TLV-C)

Particulates

- OSHA – Particulates not otherwise regulated / OSHA (PEL) 15 mg/m³ (TWA, Total Dust).
  Particulates not otherwise regulated / OSHA (PEL) 5 mg/m³ (TWA, Respirable Dust).
- ACGIH – Particulates not otherwise regulated / ACGHI (TLV) 10 mg/m³ (TWA, Total Dust)

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components	CAS #	%
Polyacetal Copolymer / Polyoxymethylene (POM)	24969-26-4	> 94
Carbon Black	1333-86-4	0 - 2
Other Additives		< 4
Formaldehyde	50-00-0	< 0.005

This product contains a proprietary blend of components encapsulated within a polymer matrix. These components are not regarded as hazardous under 2012 OSHA Hazard Communication Standard; 29CFR Part 1910.1200.

SECTION 4. FIRST AID MEASURES

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Mechanical effects only.

Skin Contact

Wash off in flowing water or shower.

Inhalation

Remove to fresh air, if effects occur. Consult a physician.

Ingestion

No adverse effects anticipated by this route of exposure incidental to proper industrial handling. If ingested, induce vomiting; if patient is conscious. Call a poison control center / physician, if patient feels unwell.

Notes to Physicians or First Aid Providers

No specific antidote. Supportive care. Treatment based on judgement of the physician in response to reactions of the patient.

SECTION 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Carbon Dioxide (CO2), dry chemical, foam or water spray, dry powder / solid extinguishing agent.

Special Fire Fighting Procedures

May produce a toxic fume or carbon monoxide if burning. Do not use a solid water stream as it may scatter and spread fire. Wear full protective suit. In case of combustion, use a suitable breathing apparatus.

Unusual Fire / Explosion Hazards

None Known.

Ignition Temperature

320 °C (608 ° F)

Hazardous Decomposition Products – Carbon Monoxide, Carbon Dioxide, Formaldehyde vapors, and other possible toxic combustion products.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill and Leak Procedures

Ventilate the area and prevent access to unauthorized people. Wear suitable personal protective equipment. Do not allow entry to drains, water courses, or soil. Prevent spreading by use of suitable barriers. Take up with suitable equipment, fill up in air-tight containers and give further treatment as soon as possible.

SECTION 7. HANDLING & STORAGE

Handling / Storage Precautions

Keep away from strong oxidizing compounds and Polyvinyl Chloride. Store in a well-ventilated place. Provide ventilation and wear necessary protectors.

Other Precautions

Do not smoke in areas where polymer dust is present. Appropriate measures should be taken to control the generation and accumulation of dust during conveying and processing operations. Do not handle hot or molten material without appropriate protective equipment. Maintain good housekeeping in work areas. Do not exceed recommended process temperatures to minimize release of decomposition products. Obtain special instructions, before use. Do not breathe dust. Wash hands thoroughly after handling. Do not eat, drink, or smoke; when machining this product. Use personal protective equipment as required.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation Measures

Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

Respiratory Protection

For most conditions a dust mask is sufficient; however, if handling at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator.

Eye Protection

Safety glasses should be sufficient for most operations; however, for dusty operations wear goggles. If vapor exposure causes eye discomfort, use a full-face respirator.

Skin and Body Protection

No precautions other than clean body-covering clothing should be needed. When thermal or melt processing, wear long pants, long sleeves, well insulated gloves, and face shield when there is a chance of contact.

Other Precautions

Special precautions to be taken in handling and storage: Store in sealed containers. Protect from atmospheric moisture. Molten material can produce thermal burns. Avoid skin contact. Fumes released during normal processing may cause irritation. Provide adequate ventilation. Heating the resin above normal processing temperatures may cause hazardous decomposition products. Do not overheat. Handling and fabrication of plastic resins can result in the generation of dust. Dust results from sawing, filing, and sanding of plastic parts in post-molding operations. Quantities of dust in air may be combustible and may cause respiratory irritation.

Exposure Guidelines

Carbon Black, CAS #1333-86-4

- OSHA -(PEL, 8hr) 3.5 mg/m³ (FRL_TWA)
- OSHA – (PEL, 8hr) 3.5 mg/m³ (TL_PEL)
- ACGIH – TWA: 3.5 mg/m³ (Inhalable Fraction); Notations: Not classifiable as a Human Carcinogen.

Formaldehyde, CAS #50-00-00

- OSHA – 0.75 ppm (TWA)
- ACGIH – 0.3 ppm – Ceiling Limit Value
  0.75 ppm TWA; 2 ppm STEL – Manufacturer Workplace Exposure Limit

Particulates

- OSHA – Particulates not otherwise regulated / OSHA (PEL) 15 mg/m³ (TWA, Total Dust).
  Particulates not otherwise regulated / OSHA (PEL) 5 mg/m³ (TWA, Respirable Dust).
- ACGIH – Particulates not otherwise regulated / ACGHI (TLV) 10 mg/m³ (TWA, Total Dust)

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

- **Appearance** – Opaque color stock shape
- **Odor –** Odorless
- **Physical State** - Solid
- **Ignition temperature** - 320 °C (608 °F)
- **Melting Point** – 165 °C (329 °F)
- **Specific Gravity (H2O = 1) –** 1.38 – 1.42
- **Evaporation Rate –** Not applicable
- **Solubility in Water –** Not soluble to water

SECTION 10. STABILITY & REACTIVITY

Hazardous Reactions – Hazardous polymerization will not occur.
Stability – Stable under normal conditions
Materials to Avoid – Strong acids, oxidizing agents, polyvinyl chloride
Conditions to Avoid – High temperatures. Flame. Do not allow mixing of this material with PVC, other halogen containing materials, and partially and/or fully cross linkable thermoplastic elastomers. Avoid prolonged heating at or above the recommended processing temperature.
Hazardous Decomposition Products – Trioxane, Formaldehyde, Paraformaldehyde, Formic Acid.

SECTION 11. TOXICOLOGICAL INFORMATION

No data – In solid state, this material is not considered as being harmful to human health.

SECTION 12. ECOLOGICAL INFORMATION (non-mandatory)

No data – this material does not harm the environment, but is not biodegradable.

SECTION 13. DISPOSAL CONSIDERATIONS (non-mandatory)

Waste Disposal Method
Dispose of contents / containers in accordance with local, regional, national, and international regulations.

SECTION 14. TRANSPORT INFORMATION (non-mandatory)

Not regulated.

SECTION 15. REGULATORY INFORMATION (non-mandatory)

US Federal Regulations

TSCA (Toxic Substance Control Act)
In compliance with TSCA Inventory requirements for commercial purposes.

SARA TITLE III (Superfund Amendments and Reauthorization Act)
This product contains no known toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40CFR372.

California Prop. 65
WARNING! This product contains a chemical known to the State of California to cause cancer. Formaldehyde, Quartz, Unspecified cobalt compounds, Acrylamide, Ethylene Oxide.

WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Acrylamide, Ethylene Oxide The State of California, under Proposition 65, regulates Crystalline Silica – airborne, unbound particles of respirable size as a carcinogen. In this product, crystalline silica is not supplied in the form regulated in California.

The following impurities, if still present at all, are below the indicated levels:
Acrylamide < 0.20 PPM
Ethylene Oxide < 0.10 PPM

PA Right-to-Know
Regulated Chemical(s): Substances on the Pennsylvania Hazardous Substances list present at a concentration of 1% or more (0.01% for Special Hazardous Substances): None known.

NJ Right-to-Know
Regulated Chemical(s): Substances on the New Jersey Workplace Hazardous Substance list present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens, or teratogens): Carbon Black.

SECTION 16. OTHER INFORMATION (non-mandatory)

Medical Use
Caution – do not use in medical applications involving permanent implantation in the human body.