

## 1 PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product Identifier

**Product Name:** Vero

**Common Name:** Supplies

**Material:** Copolyester – Polyurethane Composite

**Restrictions on Use:** American Orthodontics' products are used for the treatment of malocclusions and craniofacial abnormalities as diagnosed by a trained dental professional or orthodontist. Federal law restricts this device to be used by or on the order of a dentist or orthodontist.

### 1.2 Relevant Identified Uses/ Uses Advised Against

**Relevant identified uses:** Dental/Orthodontic use only

**Uses advised against:** Not for Consumer use. Please see "Restrictions on Use"

### 1.3 Details of the Supplier of the Safety Data Sheet

**Company Name:**

American Orthodontics  
 3524 Washington Avenue  
 Sheboygan, WI 53081  
 Phone: 920-457-5051  
 Fax: 920-457-1485

**E-mail:** info@americanortho.com

**National Contact:** Safety Department

### 1.4 Emergency Telephone Number

**Emergency Response Number:**

920-457-5051

Only available during office hours: 8:00AM – 5:00PM (Central Time)

Language of Phone Service: English

## 2 HAZARDS IDENTIFICATION

### 2.1 Classification of the product

**2.1.1 Classification according to Regulation 2012 OSHA Hazard communication Standard; 29 CFR Part 1910.1200:**

No need for classification according to GHS criteria for this product

### 2.2 Label Elements

The product does not require a hazard warning label in accordance with GHS criteria.

### 2.3 Other Hazards

No specific dangers known, if the regulations/notes for storage are considered.

### 2.4 Labeling of special preparations (GHS):

UNDER THERMOFORMING OR PROCESSING CONDITIONS, WEAR PERSONAL PROTECTIVE EQUIPMENT TO PREVENT THERMAL BURNS.

**2.4.1** According to Regulation 2012 OSHA Hazard Communication standard; 29 CFR Part 1910.1200

**2.5 Emergency Overview**

**CAUTION:**  
UNDER THERMOFORMING OR PROCESSING CONDITIONS, WEAR  
PERSONAL PROTECTIVE EQUIPMENT TO PREVENT THERMAL BURNS.  
Use with local exhaust ventilation.

**3 COMPOSITION / INFORMATION ON INGREDIENTS**

**3.1 Substance/mixture:**

**3.1.1 According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

This product does not contain any components classified as hazardous under the referenced regulation.

**3.1.2 According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

<b>Ingredient(s)</b>	<b>Identifiers</b>	<b>Percent by weight</b>
Thermoplastic Urethane	CAS. Proprietary	20 – 80%
Copolyester	CAS. Proprietary	20 – 80%

**4 FIRST-AID MEASURES**

**4.1 Description of First-Aid Measures**

General advice:

Remove contaminated clothing.

Eye Contact:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If irritation develops, seek medical attention.

Skin Contact:

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention. Skin contact with hot molten substance / product may cause thermal burns.

Inhalation:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

Ingestion:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Immediate medical attention required.

**4.2 Important Symptoms and Effects**

See Section 11 for more detailed information on health effects and symptoms

**4.3 Medical Attention & Special Treatment Necessary****4.3.1 Notes to the physician:**

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

**5 FIRE AND EXPLOSION HAZARDS****5.1 Extinguishing Media**

Suitable Extinguishing Media:

In case of fire, use water spray, dry powder, carbon dioxide, foam.

**5.2 Special Exposure Hazards from Substance/Mixture**

Hazards during fire-fighting:

No particular hazards known

**5.3 Advice for Firefighters**

Special protective equipment for fire-fighters:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

**6 ACCIDENTAL RELEASE MEASURES****6.1 Personal Precautions, Protective Equipment & Emergency Procedures****6.1.1 For Non-Emergency Personnel**

No special precautions necessary.

**6.1.2 For Emergency Responders**

No special precautions necessary.

**6.2 Environmental Precautions**

No special precautions necessary.

**6.3 Methods & Material for Containment & Cleaning Up**

Spills should be contained and placed in suitable containers for disposal.

**7 HANDLING AND STORAGE****7.1 Precautions for Safe-Handling**

Provide suitable exhaust ventilation when thermoforming or trimming.

Protection against fire and explosion:

No explosion proofing necessary.

**7.2 Conditions for Safe Storage, Including Any Incompatibilities**

Segregate from foods and animal feeds.

Suitable materials for containers: carbon steel (iron), High density polyethylene (HDPE),

Low density polyethylene (LDPE), Stainless steel 1.4301 (V2)

Further information on storage conditions: Avoid extreme heat. Avoid deposition of dust.

Storage stability:  
Protect against moisture.

## **8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **8.1 Exposure Controls**

#### **8.1.1 Appropriate Engineering Controls**

Provide local exhaust ventilation to control dust.

#### **8.1.2 Individual protection measures**

##### **8.1.2.1 Hygiene measures**

Wear protective clothing to prevent contact during mechanical processing and / or hot melt conditions. Avoid inhalation of dust. When using, do not eat, drink, or smoke. Hands and / or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied.

##### **8.1.2.2 Respiratory protection**

Wear NIOSH-certified (or equivalent) organic vapor / particulate respirator as needed.

##### **8.1.2.3 Eye & Face Protection**

Wear splash goggles to protect from hot molten substance / product.

##### **8.1.2.4 Skin Protection**

Hand Protection

Wear gloves to prevent contact during mechanical processing and / or hot melt conditions.

## **9 PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1 Basic Physical & Chemical Properties**

Form:	Sheet
Odor:	Mild
Odor Threshold:	Not applicable
pH value:	Not applicable
Melting Point:	150 – 230°C
Boiling Point:	Not applicable
Sublimation point:	No applicable information available
Flash Point:	> 300°C
Flammability:	Not flammable
Lower Explosive Limits:	For solids not relevant for classification

Upper Explosive Limits:	and labelling. For solids not relevant for classification and labelling.
Auto-Ignition Temperature:	Not applicable
Vapor Pressure:	Not applicable
Relative Density:	1.12 – 1.2
Bulk Density:	200 – 1200 kg/m <sup>3</sup> at 20°C

**9.2 Other Information**  
No additional information.

**10 STABILITY AND REACTIVITY**

**10.1 Reactivity**

Corrosion to metals:  
No corrosive effect on metal.

Oxidizing properties:  
Not an oxidizer.

**10.2 Chemical Stability**

The product is stable if stored and handled as prescribed / indicated.

**10.3 Possibility of Hazardous Reactions**

The product is chemically stable.  
No hazardous reactions if stored and handled as prescribed / indicated.

**10.4 Conditions to Avoid**

No conditions known that should be avoided.

**10.5 Incompatible Materials**

No substances known that should be avoided.

**10.6 Hazardous Decomposition Products**

Decomposition products:  
Carbon monoxide, carbon dioxide, hydrogen cyanide

Thermal decomposition:  
No decomposition if stored and handled as prescribed / indicated.  
<230°C  
Thermal decomposition above the indicated temperature is possible.  
Prolonged thermal loading can result in products of degradation being given off.

**11 TOXICOLOGICAL INFORMATION**

**11.1 Primary routes of exposure**

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may

be a route of entry for liquefied gases.

**11.2 Acute Toxicity Effects**

**11.2.1 Acute toxicity**

Assessment of acute toxicity: Inhalation of particulates may cause respiratory tract irritation. Ingestion may cause gastrointestinal disturbances. Contact with molten product may cause thermal burns. The resin in pelleted form poses a low hazard.

**11.2.2 Oral**

Type of value: LD50  
Species: rat  
Value: >5,000 mg/kg

**11.2.3 Assessment other acute effects**

Assessment of STOT single:  
Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

**11.2.4 Irritation / corrosion**

Assessment of irritating effects: Not irritating to the eyes. Not irritating to the skin.

**11.2.5 Sensitization**

Assessment of sensitization: The chemical structure does not suggest a sensitizing effect.

**11.2.6 Aspiration Hazard**

No aspiration hazard expected.

**11.3 Chronic Toxicity / Effects**

**11.3.1 Repeated dose toxicity**

Assessment of repeated dose toxicity: No known chronic effects.  
Repeated exposure to the substance by dermal administration leads to effects similar to those found after single exposure. Repeated exposure to the substance by inhalative administration leads to effects similar to those found after single exposure. Repeated exposure to the substance by oral administration leads to effects similar to those found after single exposure.

**11.3.2 Genetic toxicity**

Assessment of mutagenicity: The chemical structure does not suggest a specific alert for such an effect.

**11.3.3 Carcinogenicity**

Assessment of carcinogenicity: The chemical structure does not suggest a specific alert for such an effect.

**11.3.4 Reproductive toxicity**

Assessment of reproduction toxicity: the chemical structure does not suggest a specific alert for such an effect.

**11.3.5 Teratogenicity**

Assessment of teratogenicity: The chemical structure does not suggest a specific alert for such an effect.

Endocrine Disruptor information

Bisphenol A is not used in the manufacture or formulation of this product. We do not test this product for this chemical substance.

**11.3.6 Other information**

The product has not been tested. The statement has been derived from substances / products of a similar structure or composition.

**11.4 Symptoms of exposure**

No significant reaction of the human body to the product known.

**11.4.1 Medical conditions aggravated by overexposure**

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance / product.

**12 ECOLOGICAL INFORMATION****12.1 Toxicity**

Aquatic toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

**12.2 Persistence and Degradability**

Assessment biodegradation and elimination (H20)

Poorly biodegradable

Elimination information

Poorly biodegradable

**12.3 Bio accumulative Potential**

Bioaccumulation potential

The product has not been tested

**12.4 Mobility in Soil**

Assessment transport between environmental compartments

Due to the product characteristics the test is impossible.

**12.5 Additional information**

Absorbable organically-bound halogen (AOX):

This product contains no organically-bound halogen.

Other ecotoxicological advice:

The product has not been tested. The statement has been derived from substances / products of a similar structure or composition.

**13 DISPOSAL CONSIDERATIONS**

- 13.1 Waste disposal of substance:**  
 Incinerate in a licensed facility. Do not discharge substance / product into sewer system.  
 Dispose of in a licensed facility.
- 13.2 Container disposal:**  
 Dispose of in accordance with national, state and local regulations.

**14 TRANSPORTATION INFORMATION**

<b>Land transport</b> USDOT	Not regulated.
<b>Sea transport</b> IMDG	Not regulated.
<b>Air transport</b> IATA/ICAO	Not regulated.
<b>Code of Emergency Measure:</b>	Not regulated.
<b>Domestic Standard:</b>	In compliance with domestic law.
<b>Environmental hazards:</b>	Not regulated.
<b>Special precautions for user:</b>	No special precautions
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b>	None known

**15 REGULATORY INFORMATION**

- 15.1 Federal Regulations**
  - 15.1.1 Registration status:**  
 Chemical  
 TSCA, US  
 released / listed
  - 15.1.2 EPCRA 311/312 (Hazard categories):**  
 Not hazardous
  - 15.1.3 NFPA Hazard codes:**  
 Health: 1  
 Fire: 0  
 Reactivity: 0  
 Special: -
  - 15.1.4 HMIS III rating**  
 Health: 1  
 Flammability: 0  
 Physical hazard: 0

**16 ADDITIONAL INFORMATION**

DISCLAIMER: Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in the SDS was obtained from sources that we believe are reliable and is believed to be valid and accurate. American Orthodontics, however, makes no warranty, express or implied, regarding its correctness of the information provided. The conditions or method of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. If the product is used as a component in another product or used in a way other than recommended by the Company, this SDS information may not be applicable. **Reasonable safety precautions must always be observed.**