



Safety Data Sheet

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Product Description

Arch Wire Sleeve, Cyber Sepo, Rotation Wedges,

REF Numbers

Check IOS Catalog

Restrictions to use:

For use only by dental professionals.

Manufacturer : International Orthodontic Services
Address : 12811 Capricorn St. Stafford, TX 77477 USA
Phone No, : 1888-IOS-8882 (1888-461-8882)
Emergency Phone No, : +1 832 342 9487

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Hazards Identification

This product is a manufactured article as defined under REACH. No labeling is required for finished product.

This product is classified as "articles" and do not constitute a hazardous material in solid form und the definitions of the OSHA Hazard Communication Standard (29CFR1910.1200). Any articles manufactured from these solid products would be generally classified as non-hazardous

Composition / Information On Ingredients

<u>Ingredient(s)</u>	<u>CAS No.</u>	<u>EC No.</u>	<u>Wt. % Content (or Range)</u>
Thermoplastic polyurethane	not available	None	100

First Aid Measures

In case of skin contact (Contact with Hot Melt): Cool immediately with plenty of water. Do not remove product crusts which may have formed neither forcibly nor by applying any solvents to the skin involved. To obtain treatment for possible burns, and appropriate skin care, seek medical advice immediately.

In case of skin contact (Contact with Room Temperature Material): Wash affected areas thoroughly with soap and plenty of water.

Fire Fighting Measures

Extinguishing Media

Suitable Extinguishing Media:

Water, Foam, Dry Chemical

Special Exposure Hazards from Substance/Mixture

Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.

Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters

Advice for Firefighters

Firemen must wear self-contained breathing apparatus

Accidental Release Measure

Personal Precautions, Protective Equipment & Emergency Procedures

Put on protective equipment (see section 8). Granules are a slip hazard! Ensure adequate ventilation/exhaust extraction. Keep unauthorized persons away.

Environmental Precautions

Do not flush into surface water or sanitary sewer system.

Methods & Material for Containment & Cleaning Up

Use mechanical handling equipment. Avoid dust formation. Sweep up and shovel into suitable containers for disposal.

Reference to other sections (as applicable)

Reference Section 8 for appropriate personal protective equipment

Handling and Storage

Precautions for Safe-Handling

Adequate ventilation and, if necessary, effective exhaust must be provided at the workplace when opening fresh drums, drying granules and processing the material. Under recommended processing conditions, small amounts of emissions may occur.

Provide good ventilation and/or local exhaust systems are used. The Workplace Exposure Limit(s) stated in Section 8 should not be exceeded. Dust must be removed by effective exhaust ventilation.

Conditions for Safe Storage, Including Any Incompatibilities

Keep container tightly closed and dry.

VCI storage class (VCI=German Association of the Chemical Industry): 11 Storage Temperature: <104°C/40°C

Exposure Controls/Personal Protection

Control Parameters

The regulations for the substances listed below must be observed when processing this product, particularly if processing takes place at elevated temperatures. The provision of effective fresh-air and exhaust ventilation equipment at the points where vapors may be generated will ensure compliance with the tolerance limits quoted below:

Tetrahydrofuran (CAS# 109-99-9)

TRGS 900: 50ppm; 150mg/m³ ; Ceiling Limit: 2; If in compliance with the OEL and BEL values, then there should be no risk of reproductive damage

TRGS 900: Skin; Dermal absorption possible

TRGS 900: STEL CL; Category I: substances for which the localized effect has an assigned OEL respiratory passages

EU ELV: TWA: 50ppm; 150mg/m³ ; Dermal absorption possible EU ELV: STEL: 100ppm; 300mg/m³

General limiting value of dust:

TRGS 900: 10mg/m³ ; Ceiling Limit: 2; inhalable fraction TRGS 900: 3mg/m³ ; Ceiling Limit: 2; alveolar fraction

TRGS 900: STEL CL; Category II: substances with a resorptive effect

Exposure Controls

Hand Protection: Suitable materials for safety gloves Other Skin Protection: Wear suitable protective clothing

Respiratory Protection: In case of dust formation, use respiratory equipment with filter type particle filter P1 according to EN 143

Eye & Face Protection: Wear eye/face protection

Other protective measures: Do not breathe dust/vapor. Keep away from foodstuffs, drinks and tobacco. Wash hands and face before breaks and at the end of work. Keep working clothes separately. Change contaminated clothing.

Physical and Chemical Properties

Basic Physical & Chemical Properties

Appearance:	granular, various colors
Odor:	almost odorless
Odor Threshold:	N/A
pH:	N/A
Softening Point:	248°F/120°C
Ignition Temperature:	>410°F/210°C
Vapor Pressure:	N/A
Bulk Density:	500-700 kg/m ³
Density:	ca. 1.2 g/cm ³
Solubility(ies):	practically insoluble

Other Information

None

Reactivity and Stability

Reactivity

Stable

Chemical Stability

Stable

Conditions of Instability

None Known

Possibility of Hazardous Reactions

None observed

Conditions to Avoid

None Known

Incompatible Materials

None known

Hazardous Decomposition Products

Smoldering or incomplete combustion leads to the formation of toxic gas mixtures: Carbon Monoxide, Carbon Dioxide and Nitrogen Oxides.

Thermal decomposition begins at 230°C

Hazardous Polymerization

None Known

Toxicological Information

The product has no harmful side effects on health if properly handled.

Under recommended processing conditions, small amounts of isocyanates may be emitted. Exceeding the recommended processing temperature leads to a significant increase in the amount of isocyanate vapor generated.

Over-exposure entails a risk of concentration-dependent inhalatory irritation and/or sensitization by isocyanates (delayed appearance of difficulty breathing, coughing, asthma is possible)

The regulations for the substances listed below must be observed when processing this product, particularly if processing takes place at elevated temperatures.

Isocyanates (all, as-NCO): R42 May cause sensitization by inhalation Tetrahydrofuran (CAS# 109-99-9): R36/37

Irritating to eyes and respiratory system

Ecological Information

The product is practically insoluble in water. In view of its consistency and insolubility in water, no ecological problems are to be expected if the product is properly handled. The product is not readily biodegradable.

Do not allow to escape into waterways, wastewater or soil

Disposal Considerations

Dispose in accordance with applicable international, national and local laws, ordinances and statutes. For disposal within the EC, the appropriate code according to European Waste Catalogue (EWC) should be used.

After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until “drip-dry”), they can be sent to an appropriate collection point set up within the framework of the existing take-back scheme of the chemical industry. Containers must be recycled in compliance with national legislation and environmental regulations.

The product is suitable for mechanical recycling. After appropriate treatment it can be remelted and reprocessed into new moulded articles. Mechanical recycling is only possible if the material has been selectively retrieved and carefully segregated according to type.

Transport Information

Not dangerous cargo.

Keep dry.

Keep separated from foodstuffs.

Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulations

None

Other EU Regulations:

(Germany) Not water endangering

National Regulations (USA):

None

Chemical Safety Assessment:

No chemical safety assessment has been carried out for this substance/mixture by the supplier.

Other Information

Indication of changes/revision to SDS:

- 1.New format
- 2.Inclusion of EC Requirements
- 3.Revision Date: 04/24/2015

Abbreviations and acronyms:

None

Key literature references and sources for data

- 1.Guidance on the Compilation of Safety Data Sheets; European Chemical Agency (ECHA); Version 2.1, February 2014
- 2.Regulation (EC) No 1272/2008 of the European Parliament and the Council of 16 December 2008 on classification, labelling, and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Classification and procedure used to derive classification for mixtures according to Regulation (EC)

1272/2008[CLP]:

None