

Document number:	AR/TH-MS-007	Next Updated:	A/1
Updated number:	A/0	Updated by:	Jenny He
Date of updated:		Approved by:	
Date of approval:	March,15 <sup>th</sup> ,2018		

**1. Product and Company Identification**

Company Name: <b>Astar Orthodontics Inc.</b>	Product Grade/ Name: <b>Acrylic(Polymethyl methacrylate/PMMA)</b>
Address: Suite1503, Lidu#1 Mansion, Lane#500, South Zhongshan Rd.	Product Use : <b>Wire Holder</b>
City: Shanghai	
Country: China	Indication of use:
Telephone: +86-21-6303 1017	For hold Orthodontic wires only used in Clinic or by professional.
E-mail: service@astar-ortho.com.cn	

**2. Composition/Information on Ingredients**

Material(CAS#Description)	CAS Number	Concentration
Polymethyl methacrylate	9011-14-7	《100%

**3. Hazard Identification**

<p>Classification according to Regulation(EC)No 1272/2008</p> <p>The substance is not classified as hazardous to health or the environment according to the CLP regulation.</p> <p>Other hazards that do not result in classification: No information known.</p>
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**4.First Aid Measures**

Routes of Exposure	First Aid Measures
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice.
After skin contact	Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.
After eye contact	Rinse opened eye for several minutes under running water. Then consult doctor.
After swallowing	Seek medical treatment.
Most important symptoms and effects, both acute and delayed: No further relevant information available.	
Indication of any immediate medical attention and special treatment needed: No further relevant information available.	

**5.Fire Fighting Measures**

<p>5.1 Extinguishing media</p> <p>Suitable extinguishing agents: CO2 extinguishing powder or water jet. Fight larger fire with water jet or alcohol-resistant foam.</p>
<p>5.2 Special hazards arising from the substance or mixture</p> <p>If this products is involved in a fire, the following can be released:</p> <p>Carbon monoxide and carbon dioxide.</p>
<p>5.3 Advice for firefighters</p> <p>Protective equipment: wear self-contained breathing apparatus. wear full protective suit.</p>

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**6.Accidental Release Measures**

<p>6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.</p>
<p>6.2 Environment precaution: Do not allow product to reach sewage system or water bodies.</p>
<p>6.3 Methods and material for containment and cleaning up: Collect mechanically. Prevention of secondary hazards: No special measures required.</p>
<p>6.4 Reference to other sections See Section7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.</p>

**7.Handling and Storage**

<p>7.1 Precautions for safe handling Information about protection against explosions and fires: No information known.</p>
<p>7.2 Storage Requirements to be met by storerooms: No special requirements. Information about storage in one common storage facility: Store away from oxidising agents.</p>

**8.Exposure Control/Personal Protection**

<p>Technical protective measures Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.</p>		
Route of entry	Personal protective equipment(PPE) for normal use	PPE for emergencies
Eye/face	Use safety glasses	NA
Inhalation	For most conditions, no respiratory protection should be needed. however in dusty atmospheres, use an approved dust respirator.	NA
<p>General hygiene considerations and work practices NA</p>		

**9.Physical and Chemical Characteristics**

Form of raw material:	Powder
Form of product:	Solid
Odor:	Not determined
Melting Point:	>150° C
Initial boiling point and boiling range:	Not
Sublimation temperature/start:	Not
Inflammability(solid):	Not
Density:	1.188g/ml at 25°C
Fp:	250°C

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Solubility:	Alcohols and aliphatic hydrocarbons: insoluble
Color:	White
Water Solubility :	Soluble in tetrahydrofuran, toluene, cyclohexanone, ethyl acetate and chloroform. Insoluble in water, alcohols and aliphatic hydrocarbons.

**10.Stability and Reactivity**

Stability? <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	Conditions to Avoid No further relevant information available.
Hazardous Decomposition Products: Carbon monoxide and carbon dioxide in fire	

**11.Toxicological Information**

<p>No specific data are available.</p> <p>Skin irritation: No irritation effect.</p> <p>Eye irritation: No irritation effect.</p> <p>Skin sensitization: No skin sensitizing effect.</p> <p>Subacute to chronic toxicity: No specific data are available.</p> <p>Additional toxicological information: When used and handled according to specifications, the product does not have any harmful effects according to our experience and information provided to us.</p>
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**12.Ecological Information**

Biodegradability: N/D
Biodaccumulation: N/D
Other adverse effects: No further relevant information available.

**13.Disposal Considerations**

Recommendation: Disposal must be made according to official regulations.
Properties(Physical/Chemical) Affecting Disposal NA
Follow instructions under points6 and 12.

**14.Transport Information**

Technical Shipping Name: Wire Holder
Freight Class Bulk: N/A
Freight Class Package: N/A
Hazard Class or Division: Non-Hazardous
<p>Other</p> <p>Not dangerous material according to these regulations. Make sure that the containers and packages are not damaged.</p> <p>Load and pile them so that they will not fall or get damaged. Be sure to take preventive measures against load shift. For transport, spread a cover sheet over the load to avoid inclusion of foreign materials or water and direct sunshine.</p>

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### 15.Regulatory Information

European Community: assigned to Class Ia by Medical Device Directive 93/42 EEC

Label information follow the EN980: 2008 《Symbols for use in the labelling of medical devices》

### 16.Other Information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet or in combination with any other product or process is the responsibility of the user.

N/A=not applicable NA= not available N/D= not determined

mg/m<sup>3</sup>= milligrams per cubic meter C = ceiling PEL = permissible exposure limit

CAS=Chemical Abstracts Service(division of the American Chemical Society)