

## SAFETY DATA SHEET: Primer

**Section I – IDENTIFICATION**

<b>Product Name:</b>	Porcelain Primer
<b>Common Name:</b>	Adhesive Accessories
<b>Material:</b>	Primer
<b>Recommended Use:</b>	TP Orthodontics' products are intended for use in orthodontic treatment.
<b>Restrictions on Use:</b>	TP Orthodontics' products are intended for use by trained dental professionals and orthodontists, who have the primary responsibility to identify any possible contraindications that may preclude the use of this product. U.S. Federal law restricts this device to sale by or on the order of a dental professional.
<b>Product Manufacturer:</b>	TP Orthodontics, Inc. 100 Center Plaza La Porte, IN 46350-9672 USA Phone: 800-348-8856 Hours: M-Th 7a-4:30p Fax: 219-324-3029 Internet: <a href="http://www.tportho.com">www.tportho.com</a>
<b>Emergency Number:</b>	800-348-8856 Available during normal business hours: Monday-Thursday 7am to 5pm CST and Friday 7am to 12pm CST

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**Section II – HAZARD IDENTIFICATION**

**General Hazard Statement:** This SDS has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential and type of exposure.

**Pictograms:**

Danger



Warning

**Signal word:****Classification of the substance or mixture:****GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)**

Flammable liquids (Category 2) H225

Eye irritation (Category 2A) H319

**Hazard statements:**

H225 – Highly flammable liquid and vapor

H319 -- Causes serious eye irritation

**Precautionary statements:**

P210 – Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 – Keep container tightly closed.

P264 -- Wash skin thoroughly after handling

P280 -- Wear protective gloves, protective clothing, eye protection, face protection

P302+P352 – IF ON SKIN: Wash with plenty of soap and water

P305+P351+P338 -- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337+P313 -- If eye irritation persists, get medical advice/attention.

P370+P378 – In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam to extinguish.

P403+P235 – Store in a well-ventilated place. Keep cool.

P501 -- Dispose in a safe manner in accordance with local/national regulations.

**Hazards not otherwise classified (HNOC) or not covered by GHS:** none

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### Section III – COMPOSITION/ INFORMATION ON INGREDIENTS

Mixtures: \*

Ingredient(s)	CAS No.	EC No.	Wt. %**
Ethanol	64-17-5	200-578-6	90-92
2-Propanol	67-63-0	200-661-7	4-5
Methacryloxypropyltrimethoxysilane	2530-85-0	219-785-8	<1.5
Nonafluorohexyltrimethoxysilane	85877-79-8	N/A	<0.5
Acetic acid	64-19-7	200-580-7	<0.1

\*No minor components need to be disclosed according to the applicable regulations.

\*\*The exact weight percentages of this composition have been withheld as a trade secret. Other ingredients in the composition are deemed non-hazardous in the final mixture.

### Section IV – FIRST-AID MEASURES

<b>Skin:</b>	Take off contaminated clothing and immediately wash skin with soap and water. If signs/symptoms develop, get medical attention. Wash clothing before reuse.
<b>Eyes:</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Remove contact lenses if easy to do and continue rinsing.
<b>Ingestion:</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<b>Inhalation:</b>	Move into fresh air. If breathing difficulty occurs, get prompt medical attention.

### Section V – FIRE-FIGHTING MEASURES

<b>Flash Point and Method:</b>	NA
<b>Flammability Limits:</b>	NA
<b>Auto-ignition Temperature:</b>	NA
<b>Melting Point:</b>	NA
<b>General Hazard:</b>	Not combustible in the shipped form
<b>Firefighting Instructions:</b>	No special instructions for product shipped
<b>Firefighting Equipment:</b>	No special equipment for product as shipped
<b>Combustion Products:</b>	No hazardous decomposition products are expected

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**Section VI – ACCIDENTAL RELEASE MEASURES**

- General:** Avoid release to the environment. Prevent soil and water pollution. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
- Personal Precautions:** Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. For personal protection, see section 8.
- Methods for Containment:** Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

**Section VII - HANDLING AND STORAGE**

- Precautions for Safe Handling:** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition – No smoking. Take measures to prevent the build-up of electrostatic charge. For precautions, see section 2.
- Storage Temperature:** Store at room temperature.
- Storage Pressure:** Not applicable.
- General Storage:** Keep product tightly closed in a dry and well-ventilated place. Store out of direct sunlight and away from sources of ignition at a temperature between 2°C and 27°C.  
Product is hygroscopic.  
Storage class 3: Flammable liquids

**Section VIII – EXPOSURE CONTROLS/ PERSONAL PROTECTION****Control Parameters**

Drop-wise product quantity used at a time (16cc in plastic drop bottle) does not warrant monitoring of components with critical values at the workplace.

**Personal Protection Equipment**

- Eyes:** Safety glasses recommended. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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**Skin:** Avoid skin contact by handling with gloves. Gloves must be inspected prior to use. Dispose of contaminated gloves after use in accordance with applicable laws and good lab practices.

**Section IX – PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Colorless liquid
<b>Odor</b>	Alcohol odor
<b>Physical State</b>	Liquid
<b>pH</b>	N/A
<b>Melting/Boiling Point</b>	N/A
<b>Flash Point</b>	14 °C (58 °F) – closed cup
<b>Evaporation Rate</b>	3.0 (butyl acetate = 1)
<b>Flammability</b>	N/A
<b>Vapor Pressure</b>	N/A
<b>Vapor Density</b>	1.6 (air = 1)
<b>Relative Density</b>	N/A
<b>Solubility in water</b>	N/A
<b>Auto-ignition Temp</b>	N/A
<b>Decomposition Temp</b>	N/A
<b>Viscosity</b>	N/A

**Section X – STABILITY AND REACTIVITY**

**Stability:** Stable under recommended storage conditions.

**Reactivity:** No data available.

**Incompatible Material:** Strong oxidizing agents, strong bases

**Conditions to Avoid:** Direct sunlight. May polymerize on exposure to light. Extreme high or low temperatures.

**Hazardous Decomposition Products:** Hazardous decomposition products formed under fire conditions. Oxides of carbon and nitrogen when burned. Other decomposition products – no data available.

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### Section XI – TOXICOLOGICAL INFORMATION

#### Acute toxicity

Individual components:

Ingredient	Toxicology Data
Ethanol	LD50 Oral (Rat): 10,470 mg/kg; LC50 Inhalation (Rat): 4 h – 30,000 mg/l; LC50 Inhalation (Rat): 4 h – 124.7 mg/l (OECD Test 403)
2-Propanol	LD50 Oral (Rat): 5,045 mg/kg; LC50 Inhalation (Rat): 4 h – 37.5 mg/l (OECD Test 403); LD50 Dermal (Rabbit): 12,800 mg/kg
Methacryloxypropyltrimethoxysilane	LD50 Oral (Rat): 3000 mg/kg
Nonafluorohexyltrimethoxysilane	Not classified – no animal test data available
Acetic acid	LD50 Oral (Rat): 3,310 mg/kg; LC50 Inhalation (Mouse): 1 h – 5620 ppm; LC50 Inhalation (Rat): 4 h – 11.4 mg/l; LD50 Dermal (Rabbit): -- 1,112 mg/kg

### Section XII – ECOLOGICAL INFORMATION

#### Toxicity

##### Ethanol

Toxicity to fathead minnow fish ( <i>Pimephales promelas</i> ), LC50	15.3 mg/l (96 h)
Toxicity to water flea ( <i>Ceriodaphnia dubia</i> ), LC50	5,012 mg/l (48 h)
Toxicity to fresh water algae ( <i>Chlorella vulgaris</i> ), EC50 (OECD Test 201)	275 mg/l (72 h)

##### 2-Propanol

Toxicity to fathead minnow fish ( <i>Pimephales promelas</i> ), LC50	9,640 mg/l (96 h)
Toxicity to water flea ( <i>Daphnia magna</i> ), EC50	13,299 mg/l (48 h)
Toxicity to green algae ( <i>Desmodesmus subspicatus</i> ), IC50	>1,000 mg/l (72 h)
Toxicity to bacteria ( <i>Pseudomonas putida</i> ), EC5	1,050 mg/l (16 h)

##### Methacryloxypropyltrimethoxysilane

Toxicity to water flea ( <i>Daphnia magna</i> ), EC50	>876 mg/l (48 h)
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**Nonafluorohexyltrimethoxysilane:** No data available

##### Acetic Acid

Toxicity to rainbow trout fish ( <i>Oncorhynchus mykiss</i> ), semi-static LC50	>1,000 mg/l (96 h)
Toxicity to water flea ( <i>Daphnia magna</i> ), EC50	>300.8 mg/l (48 h)

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### Persistence and degradability

Ethanol:	Biodegradability	Aerobic – Result:	Exposure time 15 d 95% - Readily biodegradable
2-Propanol:	Biodegradability	Aerobic – Result:	Exposure time 21 d 95% - Readily biodegradable
Methacryloxypropyltrimethoxysilane:	No data available		
Nonafluorohexyltrimethoxysilane:	No data available		
Acetic Acid:	Biodegradability	Aerobic – Result:	Exposure time 30 d 99% - Readily biodegradable
	Biochemical Oxygen Demand –		880 mg/g

### Section XIII – DISPOSAL CONSIDERATIONS

**General:** May be incinerated. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility. Avoid release of uncured adhesive to the environment.

### Section XIV – TRANSPORTATION INFORMATION

#### US Department of Transportation (DOT):

- Contains Ethanol (Combustible liquid)  
UN number: 1170  
Class: 3  
Packing group: II  
Poison Inhalation Hazard: No
- Contains 2-Propanol (Combustible liquid)  
UN number: 1219  
Class: 3  
Packing group: II  
Poison Inhalation Hazard: No
- Blend of both alcohols: UN number 1987

#### International Maritime Dangerous Goods (IMDG):

- Contains Ethanol (Combustible liquid)  
UN number: 1170  
Class: 3  
Packing group: II
- Contains 2-Propanol (Combustible liquid)  
UN number: 1219  
Class: 3  
Packing group: II
- Blend of both alcohols: UN number 1987

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Marine pollutant: No

### International Air Transport Association (IATA):

- Contains Ethanol (Combustible liquid)  
UN number: 1170  
Class: 3  
Packing group: II
- Contains 2-Propanol (Combustible liquid)  
UN number: 1219  
Class: 3  
Packing group: II
- Blend of both alcohols: UN number 1987

## Section XV – REGULATORY INFORMATION

### SARA Title III (Superfund Amendments & Reauthorization Act):

311/312 Hazardous Categories – Fire hazard, acute health hazard, chronic health hazard

313 Product Ingredients – The following components are subject to reporting levels established by SARA Title III, Section 313:

	<u>CAS No.</u>	<u>Revision Date</u>
2-Propanol	67-63-0	2007-03-01

### Massachusetts Right to Know Components

	<u>CAS No.</u>	<u>Revision Date</u>
Ethanol	64-17-5	1993-04-24
2-Propanol	67-63-0	2007-03-01
Methacryloxypropyltrimethoxysilane	2530-85-0	
Acetic acid	64-19-7	1993-04-24

### Pennsylvania Right to Know Components

	<u>CAS No.</u>	<u>Revision Date</u>
Ethanol	64-17-5	1993-04-24
2-Propanol	67-63-0	2007-03-01
Methacryloxypropyltrimethoxysilane	2530-85-0	
Acetic acid	64-19-7	1993-04-24

### New Jersey Right to Know Components

	<u>CAS No.</u>	<u>Revision Date</u>
Ethanol	64-17-5	1993-04-24
2-Propanol	67-63-0	2007-03-01
Methacryloxypropyltrimethoxysilane	2530-85-0	
Acetic acid	64-19-7	1993-04-24

### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.





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### Section XVI – OTHER INFORMATION

#### HMIS Rating:

Health hazard:	<b>1</b>	Irritation or minor reversible injury possible.
Flammability:	<b>3</b>	Materials capable of ignition under almost all normal temperature conditions.
Physical hazard:	<b>0</b>	Minimal hazard

#### NFPA Rating:

Health hazard:	<b>1</b>	Exposure would cause irritation with only minor residual injury.
Fire hazard:	<b>3</b>	Can be ignited under almost all ambient temperature conditions.
Reactivity hazard:	<b>0</b>	Normally stable, even under fire exposure conditions, and are not reactive with water.

#### Full text of H-Statements referred to under Section 2:

Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Corr. 1A	Skin corrosion Category 1A
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Eye Dam. 1	Serious eye damage Category 1
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
STOT SE 3	Specific target organ toxicity – single exposure Category 3
Met. Corr. 1	Corrosive to metals Category 1
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H227	Combustible liquid
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

All the information is collected from Supplier certificate of analysis, manufacturing process, technical files and known history from 70 years of experience and is believed to be correct as of the date issued.

By supplying above information, TP Orthodontics, Inc. assumes no legal responsibility of any kind for the accuracy, completeness, or use of the data supplied as well as the product mentioned in the foreclosure.