

SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

Date Issued : 12/18/2008
 SDS No : LS1001
 Date Revised : 11/03/2015
 Revision No : 2

TruAcrylic™ Monomer Orthodontic Acrylic Liquids

SECTION 1 : Identification of the substance/preparation and of the company/undertaking

1.1. Product identifier

Product code : PRP61XX-08; PO33-200XX; PO33-19822/P; PO33-19822/C
Product name : TruAcrylic™ Monomer Orthodontic Acrylic Liquids
Product description : 6896M7A9
Generic name : Orthodontic Acrylic Liquid
Chemical family : Methacrylate
Molecular formula : Not Available

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Manufacturer

Ortho Technology, Inc.
 17401 Commerce Park Boulevard
 Tampa, FL 33647

Emergency Phone : 1-800-999-3161
E-Mail : ljohnson@orthotechnology.com


SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 1999/45/EC

2.2. Label elements

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictogram(s) : 
 Exclamation
 mark

Hazard statement(s) : H319: Causes serious eye irritation.
 H314: Causes severe skin burns and eye damage.
 H302 + H332: Harmful if swallowed or if inhaled.

2.3. Other hazards

Health hazards : DELAYED EFFECTS: Prolongs or repeated exposure can cause liver and kidney damage and allergic reaction to skin.

SECTION 3: Composition / information on ingredients

3.1. Substances

Not Applicable

3.2. Mixtures

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Chemical Name	CAS	EINECS No.	Wt.%
Triethylene Glycol Dimethacrylate	109-16-0	201-297-1	99.8
Other Esther Addducts	NR	Not Applicable	0.2
Inhibitor: Hydroquinone (HQ)	123-31-9	Not Applicable	0.0028

SECTION 4: First aid measures

4.1. Description of first aid measures

- Following eyes** : IMMEDIATELY get under a safety shower. Flush eyes with water while removing contaminated clothing and flooding exposed skin areas with water. Seek medical attention.
- Following skin** : Remove contaminated clothing promptly and wash affected skin areas with soap and water.
- Following ingestion** : If swallowed, dilute by giving 2 glasses of water to drink. Seek medical attention. Never give anything by mouth to an unconscious person.
- Following inhalation** : Move subject to fresh air. Give Artificial respiration if breathing has stopped. Seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Fire fighting measures

5.1. Extinguishing media

- Extinguishing media** : Use alcohol foam, carbon dioxide, dry chemical or water spray when fighting fires involving this material.

5.2. Special hazards arising from the substance or mixture

- Explosion hazards** : Heated sealed containers can explode.

5.3. Advice for firefighters

- Fire fighting procedures** : Wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear. Use water to cool containers. Fight fire from protected location.
EXPLOSION HAZARD
- Fire fighting equipment** : Wear self-contained breathing apparatus

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General procedures** : Keep spectators away. Eliminate ignition sources. Use self-contained breathing apparatus (pressure - demand, MSHA/NIOSH approved), impervious clothing and boots. Dike and contain spill with inert material (e.g. sand, earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for disposal. Contaminated monomer may be unstable. Add extra inhibitor to prevent polymerization.

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6.2. Environmental precautions

- Water spill** : Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.
- Land spill** : Spills on porous surfaces can contaminate groundwater.

6.3. Methods and material for containment and cleaning up

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- General procedures** : Ground all containers when transferring material. It is advisable to use material within 6 months. Material stored in bulk should be tested for stability every month; drums and pails every 3 months
- Handling** : Keep away from heat and flame.
- Storage** : Store out of direct sunlight at ambient temperatures. Limit indoor storage of flammable liquids to approved areas equipped with automatic sprinklers. Leave air space over liquid surface in all containers. It is advisable to use material within six months. Monitor inhibitor level during storage using CM-18. Materials stored in bulk should be tested for stability every month; drums and pails every three months.

7.2. Conditions for safe storage, including any incompatibilities

- Storage temperature** : Maximum storage temperature is ambient. Monomer stability is a logarithmic function of time vs. temperature. Stability is also dependent on inhibitor concentration, the presence of air and type of monomer.

7.3. Specific end use(s)

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

8.2. Exposure controls

- Engineering controls** : MECHANICAL local exhaust ventilation at point of contaminant release. Use local exhaust ventilation with a minimum capture velocity of 100 ft/min (30 m/min) at point of monomer evolution.
- Eye/face protection** : Use chemical splash goggles (AVSI Z-87.1 or approved equivalent).
- Skin protection** : Impervious gloves
- Respiratory protection** : None required if good ventilation is maintained. Otherwise, wear self-contained breathing apparatus (pressure demand, MSHA/NIOSH approved or equivalent)
- Protective clothing** : Impervious clothing and boots.
- Other precautions** : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

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Additional information : **RECOMMENDED WORK PLACE EXPOSURE LIMITS**
 TWA - STEL + 75ppm methyl Methacrylate; 4 mg/m³HQ

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: liquid
Colour	: Various colors
Odour	: Acrid fruity odor
Freezing temperature	: -54F
Boiling temperature	: 214F
Flash point	: 49F SFCC
Evaporation rate	: Greater than >1
Flammable limits	: 2.12% to 12.5%
Vapor pressure	: 29 @ 68F
Vapor density	: 3.5 (Air=1)
Specific gravity	: (H ₂ O = 1) 0.94
Solubility in water	: Moderate 1.5%
Auto-ignition temperature	: 815F
Viscosity	: 0.53 cps

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Chemical stability : Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization : May occur

10.4. Conditions to avoid

Conditions to avoid : Heat, Aging, Contamination, Oxygen-Free atmosphere and sunlight.

10.5. Incompatible materials

Incompatible materials : Other oxidizing or reducing agents, acids and bases, UV light, contamination

10.6. Hazardous decomposition products

Hazardous decomposition products : NA = Not Applicable

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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Acute

Dermal LD₅₀ : 35 500 mg/kg (rabbit)

Oral LD₅₀ : 7900 mg/kg (rat)

Inhalation LC₅₀ : > 12500 to 16,500 ppm for 0.5 hours

Notes : Human Patch Test. About 1/3 of 50 subjects developed a mild erythema at the site of application. 20% of subjects showed evidence of sensitivity when tested 10 test later.

SECTION 12: Ecological information

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

Environmental data : Not Available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal method : Incinerate liquid and the contaminated diking material, in accordance with state and federal regulations.

SECTION 14: Transport information

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Additional information : None Reported

SECTION 15: Regulatory information

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

15.2. Chemical safety assessment

Additional information : Not Available

SECTION 16: Other information

Reason for issue : New MSDS Format

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Approved by : J. Hutchins **Title :**QA/RA Director
Prepared by : T. Swan
Information contact : 1-800-999-3161
Revision summary : This MSDS replaces the 12/18/2008 MSDS. Revised: **Section 1:**
REASON FOR ISSUE. **Section 2:** .
General statements : Footnote to Section 3 : NR= Not Required
Manufacturer disclaimer : The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Ortho Technology assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by this material. Such vendees or users assume all risks associated with the use of the material.