

**1. Identification of the substance / preparation and of the company / undertakings****Product Details:**

Trade Name: Hygenic® Acrylic Liquid – Cold Cure Monomers  
(Hyflo®, Cold Cure, Perm® Reline/Repair, Hygenic® Repair, Orthodontic, Hygon® Tray)

**Manufacturer:**

**Coltene/Whaledent Inc.**  
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**Emergency Contact Numbers:**

USA & Canada: 1 800 535 5053  
Main Phone Number: +1 330 916 8800

**2. Composition / Information on Ingredients**

**Chemical Characterization:** Methyl Methacrylate Monomer, Inhibited

**Hazardous Components**

Hazardous Components	Wt %	Index, R/S Phrases
Methyl Methacrylate, Inhibited	> 1%	F, R-11,37,38,43
N,N-Dimethyl-p-toluidine	< 1%	n.k
Ethylene Glycol DiMethacrylate	> 1%	n.k

**3. Hazard Identification**

Hazard Designation: Flammable Liquid

Information pertaining to particular dangers for man and environment: Flammable Liquid, skin sensitizer, respiratory irritant

Classification is in line with BC directive 1999/45/EEC: Not Applicable (N/A)

**4. First-Aid Measures**

After Inhalation: Get to fresh air, if not breathing, administer artificial respiration. If discomfort persists, seek medical attention.

After Skin Contact: Wash thoroughly with water for 15 minutes. If irritation persists, consult a physician

After Eye Contact: Flush with water for 15 minutes. If irritation persists, consult a physician

After Swallowing: In the event of ingestion, call a physician immediately. Do not induce vomiting.

**5. Fire-Fighting Measures**

**Flammability: Flammable Flash Point: 11°C ( 52 °F) LEL: 1.8% UEL: 8.2%**

Extinguishing Media: Use alcohol foam, carbon dioxide or dry chemical to extinguish fire.

Unsuitable Extinguishing Media: Water stream may be ineffective.

Protective Equipment: Wear NIOSH approved self-contained breathing respirator in positive pressure mode and full firefighting protective clothing.

Special Hazards: Heat and pressure in closed containers may result in polymerization. Vapor is heavier than air and may travel a considerable distance to source of ignition and flash back.

**6. Accidental Release Measures**

Personal Precautions: Remove any sources of ignition, sparks and flame. Avoid contact with eyes. Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Environmental Precautions: Cover spills with an inert absorbent material; soak up and place in an appropriate disposal container. For large spills, a professional HAZMAT Team should handle it.

**7. Handling and Storage**

Precautions for Safe Handling: Avoid contact with eyes and skin. Always wear gloves and eye protection. Use with adequate ventilation. Keep container closed when not in use.

Storage: Store in cool dry container. Keep out of direct sunlight. Storage areas should comply with all appropriate Federal, State and Local regulations. Keep out of reach of children. Keep container closed.

Further Information on Storage: Open container periodically to see if product has polymerized. Do not use after expiration date.

**8. Exposure Controls/Personal Protection**

Components with recommended limits for the work place

CAS No.	Description	Wt%	Type / Value
80-62-6	Methyl Methacrylate, Inhibited	> 1%	OSHA PEL 100 ppm
99-97-8	N,N-Dimethyl-p-toluidine	< 1%	OSHA PEL Not Established
97-90-5	Ethylene Glycol DiMethacrylate	> 1%	OSHA PEL Not Established

Engineering Controls: Mechanical vapor capture enclosure and local ventilation should be used.

Work/Hygienic Protection: Wash hands and equipment after use.

Hand/Skin Protection: Wear Protective Gloves

Respiratory Protection: If exposure is above OSHA PEL, wear a NIOSH approved respirator.

Eye Protection: Wear Safety Goggles

Date of Issue: September 2009 n.a = not applicable, n.k. = not known	Coltène/Whaledent Inc. Hygenic® Acrylic Liquid – Cold Cure Monomers	Page 2 of 2 P/N 3-P01817C
<b>9. Physical And Chemical Properties</b>		
Appearance: Clear, lightly tinted liquid	Odor: sharp, pungent	Solubility: 1.6 g/ 100 g water @ 20°C
Boiling Point: 101 °C (>212 °F)	Flash Point: 11 °C (52 °F)	Method: Tag Closed Cup
Flammability: Yes	Auto flammability: n.k.	Density: 8.0 lb/gal
Vapor Pressure: 29 mmHg @ 20°C	Explosive Properties: n.e.	Explosive Limits in Air: l=1.8%, u=8.2%
pH: n.a.	Viscosity: 10 cps	Method: n.a.
<b>10. Stability and Reactivity</b>		
Chemical Stability: Stable in presence of inhibitor	Conditions to avoid: Excessive heat, storage without inhibitor, and inadvertent addition of catalyst.	
Materials to avoid: Reducing and strong oxidizing agents.	Hazardous Decomposition Products: Oxides of Carbon	
Material has strong solvent qualities and can soften paint or rubber		
<b>11. Toxicological Information</b>		
Acute Toxicity: Acute Oral Rat LD50 – 7990 mg/kg, Acute Dermal Rabbit LD50 – 35,500 mg/kg, Acute Inhalation Rat 12,500 – 16,500 ppm for ½ hour		
Primary Effects to Skin: Allergic reaction can occur by repeated direct contact.		
Primary Effects to Eyes: Irritation can occur by repeated direct contact.		
Primary Effects to Respiratory System: Overexposure to vapors may cause respiratory tract irritation and central nervous system depression		
Sensitization: N.A		
Additional Toxicological Info: The national Toxicology program used rats with chronic inhalation @ concentration up to 1000 ppm which caused nasal irritation, inflammation of the nasal cavity and degeneration of the olfactory epithelium.		
<b>12. Ecological Information</b>		
General Information: Liquid with moderate volatility. Product is sparingly soluble in water. The product has low potential for Bioaccumulation. Low Toxicity to fish.		
Classification of Water endangerment: N.A.		
<b>13. Disposal Considerations</b>		
Product: This material is to be treated as a special waste material. Follow Federal, State and Local regulatory laws for proper disposal. If determined to be a hazardous waste as classified by RCRA, then incinerate in an EPA approved facility. Completely polymerized materials can be disposed of together with household refuse in accordance with local regulatory laws.		
<b>14. Transportation Information</b>		
DOT Shipping Name:	DOT Hazard Class:	UN-No.
Methyl Methacrylate Monomer, stabilized	3	UN 1247, Packing Group II
Sea Transport IMDG/GGV Sea Class: 3.2	UN. No.: 1247, Packing Group II.	EmS-No: N.A. MFGA-No: N.A.
Air Transport ICAO-Ti and IATA-DGR Class: 3	UN. No.: 1247, Packing Group II	
<b>15. Regulatory Information</b>		
TSCA Inventory Status: This product and/or all of its components are included on the TSCA Inventory of Chemical Substances.		
SARA 311/312 Hazard Categories: Flammable Liquid		
SARA 302 Extremely Hazardous Substances: None		
SARA 313 Toxic Chemicals		
<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Weight %</u>
Methyl Methacrylate, Inhibited	80-62-6	> 1%
N,N-Dimethyl-p-toluidine	99-97-8	< 1%
Ethylene Glycol DiMethacrylate	97-90-5	> 1%
Classification According to EEC Guidelines:		
Index: F, Xi	R-Phrases – R11, 37, 38, 43	S-Phrases – S 24, 37, 46
Classification According to VBF: n.a.		
Canadian Regulations require the inclusion of the following statements under "Regulatory Information";		
"This product has been classified in accordance with the hazard criteria of the controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.		
<b>16. Other Information</b>		
Revision Summary: Changed to Company Format and Updated Address 12/06/03. Added Authorized EU Rep. 5/5/04. 1/11/06 Biannual review. Changed Header to acknowledge 2001/58/EEC in place of 91/155/EEC. Changed Sect 3 to call out 1999/45/EEC. 11/29/10 Review, no changes.		
Definitions		
F – Highly Flammable, Xi - Irritant		
R11 – Highly Flammable, R37/38 – Irritation to respiratory system and skin, R43 – May cause sensitization by skin contact		
S2- Keep out of reach of children, S24 – Avoid contact with skin, S37 – Wear Suitable Gloves		
S46 – If swallowed, seek medical advice immediately and show this container of label.		
The information and recommendations set forth herein are presented in good faith and are believed to be correct as of the date hereof. Coltène/Whaledent Inc., however, makes no representations as to the completeness of security of this information and supplies it on the condition that the persons receiving same will make their own determination as to its suitability of their purposes prior to use. In no event will Coltène/Whaledent Inc. be responsible for damages of any nature whatsoever resulting from use of or reliance upon information.		