

MATERIAL SAFETY DATA SHEET

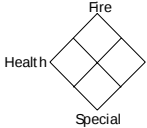
HARRY J. BOSWORTH COMPANY

7227 North Hamlin Avenue

Skokie, Illinois 60076-3999

Information Phone: 847.679.3400

Emergency Phone: 800.535.5053

HAZARD RATING		
N	4 - EXTREME	
F	3 - HIGH	
P	2 - MODERATE	
A	1 - SLIGHT	
	0 - INSIGNIFICANT	

PRODUCT: Original Truliner™ Liquid

DATE PREPARED: 10/01/04

Hazardous Components	
INGREDIENTS: 1. Methyl Methacrylate Monomer 2. Alkyl phthlate 3. Dimethyl-p-toluidine	PERCENTAGE: 1. N/A 2. N/A 3. N/A
COMMON NAMES AND SYNONYMS: 1. Monomer 2. Plasticizer 3. Accelerator	CAS NUMBER: 1. 80-62-6 2. 99-97-8 3. 99-97-8
PEL: 1. 410 mg/m ³ 2. 5 mg/ m ³ 3. ND	UN NUMBER: 1. UN 1247 2. UN 2283 3. UN 2810
TLV: 1. 410 mg/m ³ 2. 5 mg/ m ³ 3. ND	

Physical/Chemical Characteristics	
BOILING POINT/FLASH POINT: 216°F @ 760 mm/Hg	pH: N/A
SPECIFIC GRAVITY: (Water=1) 0.945 @ 20°C	VAPOR DENSITY: 3.5 (air=1)
VAPOR PRESSURE: 29 mm/Hg @ 68°F (20°C)	EVAPORATION RATE: 3 (Butyl Acetate=1)
APPEARANCE/ODOR: Colorless liquid with acrid acrylic odor.	SOLUBILITY IN WATER: 1.5 wt%

Reactivity Data
STABILITY: Unstable with heat
CONDITIONS TO AVOID: Avoid heat and ignition source, storage in inert atmosphere, contamination with foreign materials.
HAZARDOUS DECOMPOSITION PRODUCTS: Reducing and oxidizing agents. Material has strong action. Can soften paint and rubber.
HAZARDOUS POLYMERIZATION: May occur.
CONDITIONS TO AVOID: Excessive heat, oxidizing and reducing agent. Store in absence of inhibitor. Inadvertent addition of catalyst.

Fire and Explosion Hazard Data	
FLASH POINT: 50°F (10°C)	LIMITS: LEL: 2.1 vol% UEL: 12.5 vol%
EXTINGUISHING MEDIA: Foam, dry chemical, and water spray by trained personnel.	
SPECIAL FIREFIGHTING PROCEDURES: Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment. Cool container with water spray. Fight fire from distance, heat may rupture containers.	
UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors are inhibited, may form polymers in vents or in flame arrestors resulting in stoppage of vents.	

Health Hazard Data	
CARCINOGENICITY: N/A	NTP: N/A
IARC: N/A	OSHA REGULATED: N/A
Effects and Hazards of Overexposure (Acute and Chronic)	
EFFECTS AND HAZARDS OF EYE CONTACT: May cause eye irritation or cause cornea injury.	
EFFECTS AND HAZARDS OF SKIN CONTACT: Skin irritation, potential skin sensitizer. May cause the formation of methemoglobin.	
EFFECTS AND HAZARDS OF INHALATION (BREATHING): Eye nose and throat irritation, headache or dizziness.	
EFFECTS AND HAZARDS OF INGESTION (SWALLOWING): Seek medical attention immediately.	
OTHER REGULATORY INFORMATION: California Proposition 65 Warning: This product may contain a chemical known to the state of California to cause cancer .	

Emergency and First Aid Procedures
TREATMENT FOR EYE CONTACT: Flush eyes for 15 minutes and call a physician.
TREATMENT FOR SKIN CONTACT: Wash skin with soap and water. Seek medical attention if irritation persists.
TREATMENT FOR INHALATION (BREATHING): Remove person to fresh air. If not breathing give artificial respiration or oxygen. Call physician.
TREATMENT FOR INGESTION (SWALLOWING): Do not induce vomiting. Drink water. Do not give anything if person is unconscious. Call physician.
Precautions for Safe Handling and Use
STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Remove personnel, source of fire, ventilate area, wear self contained apparatus and soak up spill with absorbent material.
WASTE DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations. This material should NOT be allowed to drain to sewers. Incinerate liquid in proper containers. Absorbed materials can be landfilled according to prevailing regulation. Biological digestion can be considered.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in cool place, away from sunlight and heat. Maintain air space inside container. Keep container tightly closed.
OTHER PRECAUTIONS: This product is for professional use only as stated in directions. It is the responsibility of the dentist to train personnel.

Control Measures
RESPIRATORY PROTECTION: Use SCBA if levels exceed 100ppm
Ventilation
LOCAL EXHAUST VENTILATION To keep sufficient vapor concentration under 100ppm/8 hours.
SPECIAL VENTILATION: None
MECHANICAL (GENERAL) VENTILATION: None
OTHER VENTILATION: Open window if necessary
PROTECTION GLOVES: Impervious gloves
EYE PROTECTION: Safety glasses
OTHER PROTECTIVE EQUIPMENT: Eyewash, lab coat
WORK AND HYGIENIC PRACTICES: Wash hands before eating and smoking

Additional Information	
This MSDS was prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29CFR 1910.1200) and is to be used only for this product. The information contained in this sheet is, to the best of our knowledge, believed to be accurate	
Health Hazard Index:	Ratings:
SEVERE HAZARD	1
SERIOUS HAZARD	2
MODERATE HAZARD	③
SLIGHT HAZARD	4
MINIMUM HAZARD	5
Shipping Information	
REGULATED IATA: N/A	
PROPER SHIPPING NAME: Methyl Methacrylate Monomer inhibited	
HAZARD CLASS: 3	
IDENTIFICATION NUMBER: UN 1247	
PACKAGING GROUP: II	
LABEL: Flammable liquid	

To the best of our knowledge, the information contained herein is accurate. However, The Harry J. Bosworth company does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Original Truliner™ Liquid MSDS946

PRODUCT: Original Truliner™ Powder Pink/Vein/Clear

DATE PREPARED: 10/01/04

Hazardous Components		Physical/Chemical Characteristics	
INGREDIENTS: 1. Particulates NOC 2. Organic Peroxides 3. Pigment (not clear, white)	PERCENTAGE: 1. N/A 2. N/A 3. N/A	BOILING POINT/FLASH POINT: N/A	MELTING POINT:: N/A
COMMON NAMES AND SYNONYMS: 1. Poly(methyl methacrylate) 2. Benzoyl Peroxide 3. Cadmium Pigments (not clear, white)	CAS NUMBER: 1. N/A 2. 94-36-0 3. 7440-43-9(Not in case of clear)	SPECIFIC GRAVITY: H ₂ O=1 N/A	VAPOR DENSITY: (Air = 1) N/A
PEL: 1. 15 mg/mm ³ 2. 5 mg/m m ³ 3. 0.05 mg/m ³	UN NUMBER: 1. N/A 2. 3102 3. N/A	VAPOR PRESSURE: N/A	EVAPORATION RATE: (Butyl Acetate = 1) N/A
TLV: 1. 10 mg/mm ³ 2. 5 mg/m m ³ 3. 0.05 mg/m ³		APPEARANCE/ODOR: Powder is very fine, faint odor in bulk. Pink, vein, colorless shades.	SOLUBILITY IN WATER: Insoluble

Reactivity Data	Fire and Explosion Hazard Data
STABILITY: Stable	FLASH POINT: 579°F (304°C)
CONDITIONS TO AVOID: Avoid heating more than 300°C. Avoid strong oxidizing agents.	LIMITS: LEL: N/A UEL: N/A
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Carbon.	EXTINGUISHING MEDIA: Water, CO ₂ , dry chemical.
HAZARDOUS POLYMERIZATION: Will not occur.	SPECIAL FIREFIGHTING PROCEDURES: Avoid extinguishing devices that may cause dust clouds. Water stream can disperse dust into air, producing a fire hazard if exposed to ignition source.
CONDITIONS TO AVOID: N/A	UNUSUAL FIRE AND EXPLOSION HAZARDS: Polymer dust is combustible. Explosive limits of those particles suspended in the air are that of coal dust. Wear self contained breathing apparatus.

Health Hazard Data	Emergency and First Aid Procedures
CARCINOGENICITY: None of the components are listed as carcinogens by the NPT, IARC, or OSHA	TREATMENT FOR EYE CONTACT: Flush with plenty of water for 15 minutes. Seek medical attention if discomfort persists.
IARC: Not listed	TREATMENT FOR SKIN CONTACT: Wash with soap and water.
Effects and Hazards of Overexposure (Acute and Chronic)	TREATMENT FOR INHALATION (BREATHING): Move to fresh air, seek medical attention if discomfort persists.

EFFECTS AND HAZARDS OF EYE CONTACT: Irritation may occur.
EFFECTS AND HAZARDS OF SKIN CONTACT: None known.
EFFECTS AND HAZARDS OF INHALATION (BREATHING): Dust may cause a nuisance.
EFFECTS AND HAZARDS OF INGESTION (SWALLOWING): None known.
California Proposition 65 Warning: This product contains a chemical (not in case of clear) known to the state of California to cause cancer

TREATMENT FOR INGESTION (SWALLOWING): Rinse out mouth with water and drink plenty of water.
Precautions for Safe Handling and Use
STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Sweep up to avoid slipping hazard.
WASTE DISPOSAL METHOD: May be disposed of in landfill or incinerate in accordance with federal.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in cool, dry place. Handle with care to avoid spills.
OTHER PRECAUTIONS: This product is for professional use only as stated in directions. It is the responsibility of the dentist to train personnel.

Control Measures
RESPIRATORY PROTECTION: Use specific type mask for particulates not otherwise classified.
Ventilation
LOCAL EXHAUST VENTILATION Not needed.
SPECIAL VENTILATION: Not needed.
MECHANICAL (GENERAL) VENTILATION: Not needed.
OTHER VENTILATION: Open window if necessary.
PROTECTION GLOVES: Use if needed.
EYE PROTECTION: Wear goggles if needed.
OTHER PROTECTIVE EQUIPMENT: Coat, eyewash.
WORK AND HYGIENIC PRACTICES: Wash hands before eating and smoking

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MINIMUM HAZARD	⑤
Shipping Information	
REGULATED IATA: N/A	
PROPER SHIPPING NAME: N/A	
HAZARD CLASS: N/A	
IDENTIFICATION NUMBER: N/A	
PACKAGING GROUP: N/A	
LABEL: N/A	

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Original Truliner™ PowderMSDS957