MATERIAL SAFETY DATA SHEET

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NFPA

HAZARD RATING

4 - EXTREME
3 - HIGH
2 - MODERATE
1 - SLIGHT
0 - INSIGNIFICANT

PRODUCT: Fastray™ Liquid

DATE PREPARED: 4/3/14

HEALTH HAZARD DATA

CARCINOGENICITY None known.	NTP None known.
IARC None known.	OSHA REGULATED None known.

EMERGENCY & FIRST AID PROCEDURES

TREATMENT FOR EYE CONTACT
Flush eyes for 15 minutes and contact 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. If person is unconscious, do not give anything. Call a physician.

HAZARDOUS COMPONENTS

INGREDIENTS Methyl Methacrylate	PERCENTAGE > 95%
COMMON NAMES AND SYNONYMS Methacrylic Acid, Methyl-Ester	CAS NUMBER 80-62-6
PEL 100 ppm TWA	UN NUMBER UN 1247
TLV 50 ppm TWA	

PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT 216°F @ 760 mm Hg	pH N/D
SPECIFIC GRAVITY 0.944g/ml @ 20°C	VAPOR DENSITY 3.5 (Air = 1)
VAPOR PRESSURE 29mmHg @ 68°F (20°C)	EVAPORATION RATE 3 (Butyl Acetate = 1)
APPEARANCE/ODOR Colorless liquid with acrid acrylic odor.	SOLUBILITY IN WATER 1.5 WT%

EFFECTS & HAZARDS OF OVEREXPOSURE
(ACUTE & CHRONIC)

EFFECTS & HAZARDS OF EYE CONTACT
Irritation, blurring of vision and possible corneal damage.

EFFECTS & HAZARDS OF SKIN CONTACT
Irritation, skin sensitizer. Skin permeation may occur.

EFFECTS & HAZARDS OF INHALATION (BREATHING)
Nose and throat irritation, headache, lung irritation with cough.

EFFECTS & HAZARDS OF INGESTION (SWALLOWING)
Same as inhalation.

OTHER REGULATORY INFORMATION

PRECAUTIONS FOR SAFE HANDLING & 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 a 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.

REACTIVITY DATA

STABILITY
Unstable with heat.

CONDITIONS TO AVOID
Avoid heat and ignited sources.

HAZARDOUS DECOMPOSITION PRODUCTS
Smoke and oxides of carbon.

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 a distance, heat may rupture containers.

UNUSUAL FIRE AND EXPLOSION HAZARDS
Vapors are uninhibited, may form polymers in vents or flame arrestors, resulting in stoppage of vents.

CONTROL MEASURES

RESPIRATORY PROTECTION
NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge may be used.

VENTILATION

LOCAL EXHAUST VENTILATION
To keep sufficient vapor concentration under 100 ppm per 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 & 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 - stabilized

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.