

MATERIAL SAFETY DATA SHEET

HARRY J. BOSWORTH COMPANY

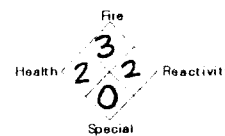
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Skokie, Illinois 60076-3999

Information Phone: 847.679.3400

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



PRODUCT: Fastray™ Liquid
DATE PREPARED: 02/28/00

Hazardous Components

INGREDIENTS:

1. Methyl Methacrylate
2. Dimethyl Para Toluidine

PERCENTAGE:

N/A
N/A

COMMON NAMES AND SYNONYMS:

1. Methacrylic Acid
Methyl-Ester
2. N-N Dimethyl Para Toluidine

CAS NUMBER:

1. 80-62-6
2. 99-97-8

PEL:

100 ppm/8Hv. TWA

UN NUMBER:

1. UN 1247
2. N/A

TLV:

100ppm/8Hv.TWA

Physical/Chemical Characteristics

BOILING POINT/FLASH POINT:

216°F @ 760 mm/Hg

pH:

N/A

VISCOSITY:

0.945

DENSITY: g/cm³

3.5 (air=1)

VAPOR PRESSURE:

29mm/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.

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
UEL: 12.5

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 uninhibited, may form polymers in vents or flame arresters, resulting in stoppage of vents.

Health Hazard Data

CARCINOGENICITY:
California Proposition 65 Warning: This product may contain a chemical known to the state of California to cause cancer.

NTP:
N/A

IARC:
N/A

OSHA REGULATED:
N/A

Effects and Hazards of Overexposure (Acute and Chronic)

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

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

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

EFFECTS AND HAZARDS OF INGESTION (SWALLOWING):
Same as inhalation

OTHER REGULATORY INFORMATION:
California Proposition 65 Warning: This product may contain a chemical known to the state of California to cause cancer.
Chemical ingredient requiring this warning:

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.

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.

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 regulations. Rinsing and cleaning can be considered.
PRECAUTIONS TO BE TAKEN IN HANDLING AND
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:
NIOSH/MSDA 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 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.
Fastray Liquid