-MATERIAL SAFETY DATA SHEET

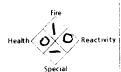
HARRY J. BOSWORTH COMPANY

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:

Lightliner ™ Air Barrier

DATE PREPARED:

10/22/98

Hazardous Components		
INGREDIENTS:	PERCENTAGE:	
Polyester polyol	N/A	
COMMON NAMES AND SYNONYMS:	CAS NUMBER:	
N/A	NA	
PEL:	UN NUMBER:	
N/A	N/A	
TLV: N/A		

Physical/Chemical Characteristics		
BOILING POINT:	MELTING POINT:	
NA	N/A	
SPECIFIC GRAVITY:	VAPOR DENSITY:	
Over 1	NA	
VAPOR PRESSURE:	EVAPORATION RATE:	
NA	NA	
APPEARANCE/ODOR:	SOLUBILITY IN WATER:	
Viscous light liquid	NA	

Reactivity Data	Fire and Ex	Fire and Explosion Hazard Data	
STABILITY: Stable	FLASH POINT: 200°F	LIMITS: LEL: N/A UEL: N/A	
CONDITIONS TO AVOID: None	EXTINGUISHING MEDI. Foam, dry chemicals	A :	
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide	SPECIAL FIREFIGHTING None	SPECIAL FIREFIGHTING PROCEDURES: None	
HAZARDOUS POLYMERIZATION: Will not occur CONDITIONS TO AVOID: None	UNUSUAL FIRE AND E None	XPLOSION HAZARDS:	

Health Hazard Data CARCINOGENICITY: NPT: N/A OSHA REGULATED: IARC: N/A **Effects and Hazards of Overexposure** (Acute and Chronic) EFFECTS AND HAZARDS OF EYE CONTACT: May cause irritation EFFECTS AND HAZARDS OF SKIN CONTACT: None EFFECTS AND HAZARDS OF INHALATION (BREATHING): None EFFECTS AND HAZARDS OF INGESTION (SWALLOWING): May cause discomfort

Emergency and First Aid Procedures

TREATMENT FOR EYE CONTACT: Flush with water and contact a physician.

TREATMENT FOR SKIN CONTACT: Wash thoroughly after using.

TREATMENT FOR INHALATION (BREATHING):
None, if irritation occurs, see physician

TREATMENT FOR INGESTION (SWALLOWING): None, if irritation persists, see physician

Precautions for Safe Handling and Use

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

WASTE DISPOSAL METHOD: Collect and contain for disposal.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Protective gloves and safety glasses

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:

None

140110
Ventilation
LOCAL EXHAUST VENTILATION
NA
SPECIAL VENTILATION:
NA
MECHANICAL (GENERAL) VENTILATION:
General exhaust
OTHER VENTILATION:
NA
PROTECTION GLOVES:
Rubber gloves
EYE PROTECTION:
Safety glasses
OTHER PROTECTIVE EQUIPMENT:
None
WORK AND HYGIENIC PRACTICES:
Wash thoroughly after handling
To the best of our knowledge, the information contained berein is accurate. However T

Additional Information

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Health Hazard Index:	Ratings:
SEVERE HAZARD	1
SERIOUS HAZARD	2
MODERATE HAZARD	3
SLIGHT HAZARD	4
MINIMUM HAZARD	(3)

Shipping Information

REGULATED IATA:

PROPER SHIPPING NAME:

HAZARD CLASS:

IDENTIFICATION NUMBER:

N/A

PACKAGING GROUP:

NA

LABEL: NA

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MATERIAL SAFETY DATA SHEET

HARRY J. BOSWORTH COMPANY

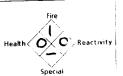
7227 North Hamlin Avenue Skokie, Illinois 60076-3999 Information Phone: 847.679.3400 Emergency Phone: 800.535.5053 HAZARD RATING

N 4 - EXTREME

F 3 - HIGH P 2 - MODERATE

A 1 - SLIGHT

0 - INSIGNIFICANT



PRODUCT: LightLiner™ Hard Liquid/Powder

DATE PREPARED: 11/9/98

Hazardous Con	nponents	Physical/Chemical C	haracteristics
INGREDIENTS: Liquid Methacrylic Acid Butyl Ester Powder - Ethyl Methacrylate Polymer (Non-hazardous component)	PERCENTAGE: 1. N/A	BOILING POINT: 292°C	Melting Point: N/A
COMMON NAMES AND SYNONYMS: 1. N/A	CAS NUMBER: N/A	VISCOSITY: 1.005	VAPOR DENSITY: 1
PEL: N/A	UN NUMBER: N/A	VAPOR PRESSURE: 7 @ 160°C	EVAPORATION RATE: N/A
TLV: N/A	1	APPEARANCE/ODOR: Clear, pale, yellow liquid: mild odor. Translucent pink fibered powder.	SOLUBILITY IN WATER: Negligible

Reactivity Data	Fire and Explosion Hazard Data	
STABILITY: Stable	FLASH POINT: 230°F (110°C)	LIMITS: LEL: N/A UEL: N/A
CONDITIONS TO AVOID: Heat and ignition sources.	EXTINGUISHING MEDIA: Carbon dioxide, dry chemical foam, water fog	
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Carbon Dioxide, Smoke	SPECIAL FIREFIGHTING PROCEDURES: Fight fire from safe distance. Cool exposed material with cold water spray. Vapors are heavier than air and may travel to ignition source.	
HAZARDOUS POLYMERIZATION: May occur.	UNUSUAL FIRE AND EXPLOSION HAZARDS: Sealed containers exposed to elevated temperatures may rupture explosively due to polymerization	
CONDITIONS TO AVOID: Reducing and oxidizing agents. Material has strong solvent action and can soften paint and rubber. Excessive heat - No hazard when stored according to directions.		

Health Hazard Data CARCINOGENICITY: Not known NPT: NO IARC: OSHA REGULATED: NO Effects and Hazards of Overexposure (Acute and Chronic) EFFECTS AND HAZARDS OF EYE CONTACT: May cause irritation

EFFECTS AND HAZARDS OF SKIN CONTACT: May cause skin irritation or rash.

EFFECTS AND HAZARDS OF INHALATION (BREATHING): May cause nausea

EFFECTS AND HAZARDS OF INGESTION (SWALLOWING): May cause nausea

Emergency and First Aid Procedures

TREATMENT FOR EYE CONTACT:

Wash eyes with stream of water for at least 15 minutes

TREATMENT FOR SKIN CONTACT:

Wash skin with soap and water.

TREATMENT FOR INHALATION (BREATHING):

Move to fresh air, administer oxygen or artificial respiration if necessary. Call physician.

TREATMENT FOR INGESTION (SWALLOWING): Induce vomiting and call a physician

Precautions for Safe Handling and Use

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

For high vapor concentration, evacuate area, eliminate ignition sources. Absorb spills with inert material and transfer to suitable container for disposal

WASTE DISPOSAL METHOD:

Do not allow to drain into water system. Incinerate liquid in proper equipment. Dispose of in accordance with federal, state, and local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in cool, dark place. Keep away from ignition sources.

OTHER PRECAUTIONS:

This product is for professional use only as stated in directions. It is the responsibility of thist to train personnel

Control Measures

RESPIRATORY PROTECTION:

When vapors exceed 100ppm, self-contained breathing apparatus.

Ventilation
LOCAL EXHAUST VENTILATION
Recommended to keep vapor under 100ppm
SPECIAL VENTILATION:
None needed
MECHANICAL (GENERAL) VENTILATION:
Recommended
OTHER VENTILATION:
None needed
PROTECTION GLOVES:
Impervious, neoprene-type
EYE PROTECTION:
Chemical/safety goggles
OTHER PROTECTIVE EQUIPMENT:
Eyewash
WORK AND HYGIENIC PRACTICES:
Use good personal hygiene

Additional Information

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SEVERE HAZARD	1
SERIOUS HAZARD	2
MODERATE HAZARD	3
SLIGHT HAZARD MINIMUM HAZARD	4 ⑤

Shipping Information

REGULATED IATA:

PROPER SHIPPING NAME:

HAZARD CLASS:

IDENTIFICATION NUMBER:

PACKAGING GROUP:

LABEL:

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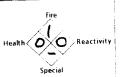
N 4 - EXTREME

F 3 - HIGH

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0 - INSIGNIFICANT



PRODUCT:

<u>LightLiner™ Soft Liquid/Powder</u>

DATE PREPARED:

11/9/98

Hazardous Con	nponents	Physical/Chemical	Characteristics
INGREDIENTS: Liquid -Organic Ester Powder - Ethyl Methacrylate Polymer (Non-hazardous component)	PERCENTAGE: 1. N/A	BOILING POINT: 138°C 10mm	Melting Point:
COMMON NAMES AND SYNONYMS: 1. N/A	CAS NUMBER: N/A	VISCOSITY: 0.991	VAPOR DENSITY: 7.9
PEL: N/A	UN NUMBER: N/A	VAPOR PRESSURE: 15mm @ 150°C	EVAPORATION RATE:
TLV: N/A		APPEARANCE/ODOR: Clear, oily liquid Translucent pink fibered powder	SOLUBILITY IN WATER: 0.01% @ 23°C

Reactivity Data	Fire and Explosion Hazard Data	
STABILITY: Stable	FLASH POINT: 230°F SECC (110°C) LIMITS: LEL: UEL:	
CONDITIONS TO AVOID: Heat and ignition sources.	EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foam	
HAZARDOUS DECOMPOSITION PRODUCTS: None known	SPECIAL FIREFIGHTING PROCEDURES: None known. However, firefghters should wear self-contained breathing apparatus to prevent inhalation of smoke vapors.	
HAZARDOUS POLYMERIZATION: Will not occur	UNUSUAL FIRE AND EXPLOSION HAZARDS: None known	
CONDITIONS TO AVOID: Reducing and oxidizing agents. Material has strong solvent action and can soften paint and rubber. Excessive heat.		

EFFECTS AND HAZARDS OF SKIN CONTACT:

May cause skin irritation or rash.

EFFECTS AND HAZARDS OF INHALATION (BREATHING):
May cause irritation of mucous membranes, nausea, diarrhea.

EFFECTS AND HAZARDS OF INGESTION (SWALLOWING): May cause irritation of mucous membranes, nausea, diarrhea.

Emergency and First Aid Procedures

TREATMENT FOR EYE CONTACT:

Wash eyes with stream of water for at least 15 minutes

TREATMENT FOR SKIN CONTACT:

Wash skin with soap and water at first opportunity.

TREATMENT FOR INHALATION (BREATHING):
Move to fresh air

TREATMENT FOR INGESTION (SWALLOWING): Induce vomiting and call a physician

Precautions for Safe Handling and Use

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Ventilate area. Spread absorbant material and place absorbed material in a closed container. Wear protective equipment during cleanup.

WASTE DISPOSAL METHOD:

Incinerate in an approved incinerator or dispose of in a chemical dump in accordance with federal, state, and local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Avoid prolonged use or repeated inhalation of heated vapors or spray mists. Avoid prolonged or repeated skin contact.

OTHER PRECAUTIONS:

This product is for professional use only as stated in directions. It is the responsibility of thist to train personnel

Control Measures

RESPIRATORY PROTECTION:

Respirator or face mask should be worn to avoid inhalation of heated vapors or mists.

Ventilation LOCAL EXHAUST VENTILATION Recommended SPECIAL VENTILATION:

MECHANICAL (GENERAL) VENTILATION:

Recommended

None needed

OTHER VENTILATION:

None needed

PROTECTION GLOVES:

Chemical resistant plastic or rubber

EYE PROTECTION:

Chemical/safety goggles

OTHER PROTECTIVE EQUIPMENT:

As required to prevent wetting of skin or clothing.

WORK AND HYGIENIC PRACTICES:

Use safety glasses and wash hands frequently with soap/water

Additional Information

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Shipping Information

REGULATED IATA:

PROPER SHIPPING NAME:

HAZARD CLASS:

IDENTIFICATION NUMBER:

<u>N/A</u>

PACKAGING GROUP:

N/A

LABEL: N/A

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