



Boston® XO₂ (hexafocon B) Contact Lens Material

MATERIAL SAFETY DATA SHEET

Effective Date: 9/5/07 Supersedes: None

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Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Boston® XO₂ (hexafocon B) Contact Lens Material
Product Code(s): 2400, 2411, 2499

For Information: 1-800-333-4730
For Emergency: 1-800-535-5053

Manufacturer: Bausch & Lomb, Inc.
Address: 1400 N. Goodman Street
Rochester, New York 14692

Section 2: COMPOSITION / INFORMATION ON INGREDIENTS

2411	2400	2499	CAS#	COMPONENT NAME	% W/W	OCCUPATIONAL EXPOSURE LIMITS / GUIDELINES										
						OSHA PEL TWA /STEL	ACGIH TLV TWA /STEL	NIOSH REL TWA /STEL	IRELAND TWA /STEL	HSE TWA /STEL	UNITS					
X	X	X	3063-94-3	Hexafluoroisopropyl Methacrylate	< 50	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NA
X	X	X	17096-07-0	3-Methacryloxypropyl tris (trimethylsiloxy)silane	< 40	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NA
X	X	X	19875-51-9	Neopentyl Glycol Dimethacrylate	< 15	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NA
X	X	X	70877-62-2	Monomer M2D25	< 20	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NA
X	X	X	79-41-4	Methacrylic Acid	< 10	NE	NE	20	NE	20	NE	20	40	20	40	PPM
X	X	X	13050-09-0	2,5-Dimethyl-2,5di(2-ethylhexanoyl [peroxy]hexane)	< 1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NA
	X		131-54-4	2,2'-Dihydroxy-4,4' Dimethoxy – benzophenone	< 1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NA
		X	2035-72-5	4-Methacryloxy-2-Hydroxybenzo – phenone	< 1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NA
Total					100											

N/E: Not Established OSHA: Occupational Safety & Health Administration
N/A: Not Applicable PPM: Parts Per Million MG/M3: Milligrams Per Cubic Meter
ACGIH: American Conference of Governmental Industrial Hygienists
NIOSH: National Institute for Occupational Safety & Health

TWA: 8-Hour Time-Weighted Average
STEL: Short-Term Exposure Limit
C: Ceiling Limit
REL: Recommended Exposure Limit

The BOSTON LENSES are non-hydrophilic contact lens materials available in a wide variety of different visibility tints using D&C numbered dyes, and are also provided both with and without a UV absorbing agent.

Section 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Boston® XO₂ (hexafocon B) Contact Lens Material are solid, tinted lenses or unfinished buttons with no odor. As a finished contact lens product or button, these materials are non-hazardous and should only be used in accordance with product literature. If you are allergic to any ingredient in this product, DO NOT USE.

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Section 3: HAZARDS IDENTIFICATION (cont.)

PRECAUTIONS:

Boston® XO₂ Contact Lens Material is made from a fluoro silicone acrylate co-polymer, hexafocon B, with a water content of less than 1%. Fully polymerized material is considered non-hazardous, but should only be used in accordance with product literature. If you are allergic to any ingredient in this product, **DO NOT USE**.

POTENTIAL HEALTH EFFECTS

EYE:

Dust from grinding may cause severe eye irritation.

SKIN:

Frequent or prolonged contact with button dust may irritate the skin and cause a skin rash (dermatitis).

INGESTION:

Dusts may be irritating to mouth, throat, stomach and intestinal tract.

INHALATION:

Breathing of button dust may cause respiratory tract irritation.

CHRONIC HEALTH EFFECTS

No known chronic hazards.

CARCINOGENICITY:

NTP: No ingredients listed.

IARC: No ingredients listed.

OSHA: No ingredients listed.

Section 4: FIRST AID MEASURES

NOTE: *The following first aid measures apply only to lens button dust created through grinding, lathing or further processing.*

EYES:

Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

SKIN:

Wash thoroughly with soap and water. Get medical attention if irritation or other symptoms develop or persist.

INGESTION:

If swallowed, contact the Poison Control Center and obtain appropriate medical attention immediately.

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Section 4: FIRST AID MEASURES (cont.)

INHALATION:

If exposed to excessive levels of dust, remove to fresh air. Get medical attention if cough or other symptoms develop.

Section 5: FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

Flash Point: Non-Combustible

Method: NA

EXTINGUISHING MEDIA:

Water spray, carbon dioxide, dry chemical powder or appropriate foam for surrounding fire.

HAZARDOUS COMBUSTION PRODUCTS:

None identified.

SPECIAL FIRE FIGHTING INSTRUCTIONS:

As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

General Information:

Contain spill and place in a suitable waste container. Dispose of in accordance with Section 13.

Section 7: HANDLING AND STORAGE

HANDLING:

No special handling is required. Use in accordance with product literature.

STORAGE:

Store at room temperature. Avoid freezing.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION:

No special controls or personal protection required under conditions of intended use. Use local exhaust when grinding, cutting, lathing or processing lens buttons.

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Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION (cont.)

SKIN PROTECTION:

No special controls or personal protection required under conditions of intended use.

EYE PROTECTION:

No special controls or personal protection required under conditions of intended use.

ADDITIONAL PROTECTIVE CLOTHING & EQUIPMENT:

NA

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL PROPERTIES:

Appearance / Physical State: Solid, tinted contact lenses or unfinished buttons
Odor: Odorless

CHEMICAL PROPERTIES:

Boiling Point:	Not Determined	Melting Point:	Not Applicable
Vapor Pressure:	Not Determined	Vapor Density:	Not Determined
Solubility In Water:	Soluble	Specific Gravity (H₂O = 1):	Not Determined
pH:	Not Applicable	Freezing Point:	Not Determined

Molecular Weight: Mixture, Not Applicable

Section 10: STABILITY AND REACTIVITY

GENERAL:

Stable under normal conditions.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

None.

HAZARDOUS POLYMERIZATION:

Will not occur.

HAZARDOUS DECOMPOSITION:

None identified.

Section 11: TOXICOLOGICAL INFORMATION

No data available on the co-polymer.

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Section 12: ECOLOGICAL INFORMATION

No data available on the environmental impact of this product.

Section 13: DISPOSAL CONSIDERATIONS

All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

Section 14: TRANSPORT INFORMATION

	US DOT	IATA	IMO	RID/ADR	Canadian DG
Shipping Name:	Not Regulated	Not Regulated	No Information Available	No Information Available	No Information Available
Hazard Class:	NA	NA			
UN Number:	NA	NA			
Package Group:	NA	NA			

There are no unreasonable risks (health, safety, or property), that this product would pose when transported in commerce. Hazard class definitions (49 CFR, Part 173) are not applicable to this product.

Section 15: REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200):

Polymerized Boston® XO₂ Contact Lens Materials are non-hazardous under the Occupational Safety & Health Administration Hazard Communication Standard. Further processing, grinding or lathing of these materials may create hazardous dusts.

TOXIC SUBSTANCE CONTROL ACT (TSCA):

CAS# 79-41-4 is listed on the TSCA Inventory.
CAS# 131-54-4 is listed on the TSCA Inventory.

SARA TITLE III (Superfund Amendments and Reauthorization Act):

SECTION 302 (Extremely Hazardous Substances): No Components Listed
SECTION 311, 312 (Hazard Categories): NA
SECTION 313 (Toxic Chemicals): No Components Listed

CALIFORNIA PROPOSITION 65:

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels that would require a warning under the statute.

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Section 16: OTHER INFORMATION

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