Safety Data Sheet



See better. Live better.

Section 1: Identification

Product identifier

Product Name Boston SIMPLUS® Multiaction Solution

Product Code 625611; 7338; FCP-4234 **Product Description** Contact Lens Solution.

Relevant identified uses of the substance or mixture and uses advised against

Recommended use Removes protein, cleans, disinfects, conditions, cushions, rinses and wets rigid gas permeable contact lenses.

Restrictions on use Use in accordance with product literature.

Details of the supplier of the safety data sheet

Manufacturer Bausch & Lomb, Inc

1400 North Goodman Street Rochester, NY 14609

United States

bausch.com **Telephone (General)** • 1-800-553-5340

Emergency telephone number

Manufacturer 1-800-535-5053 - Infotrac

Section 2: Hazard Identification

UN GHS

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Classification of the substance or mixture

UN GHS Classification criteria not met

Label elements

UN GHS

Precautionary statements

Storage/Disposal • Store at 15-30°C (59-86°F)...

Keep tightly closed and store in upright position.

Other hazards

UN GHS No data available

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Section 3 - Composition/Information on Ingredients

Substances

 Material does not meet the criteria of a substance according to United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Mixtures

Composition					
Chemical Name	Identifiers	%	Classifications According to Regulation/Directive		
Boric acid	CAS:10043-35-3 EINECS:233-139-2	< 1%	UN GHS: Skin Irrit. 2; Eye Irrit. 2A; Acute Tox. Oral 5; Repr. 1		
Chlorihexidine gluconate	CAS:18472-51-0 EINECS:242-354-0	< 0.003%	UN GHS: not classified		
Glucam E-20	CAS:68239-42-9	< 1%	UN GHS: not classified		
Hydroxyalkyl phosphonate	CAS:3794-83-0 EINECS:223-267-7	< 1%	UN GHS: not classified		
Hydroxypropyl methyl cellulose E4M	CAS:9004-65-3	< 1%	UN GHS: not classified		
Poloxamine	CAS:26316-40-5	< 1%	UN GHS: not classified		
Polyaminopropyl biguanide HCI (20%)	CAS:32289-58-0	0.0005%	UN GHS: not classified		
Purified water	CAS:7732-18-5 EINECS:231-791-2	> 95%	UN GHS: not classified		
Sodium borate	CAS:1303-96-4	< 1%	UN GHS: Skin Irrit. 2; Eye Irrit. 2A; Acute Tox. Oral 5; Repr. 2		
Sodium chloride	CAS:7647-14-5 EINECS:231-598-3	< 1%	UN GHS: Skin Irrit. 2; Eye Irrit. 2A; Acute Tox. Oral 5		

The exact percentage of composition has been withheld as a trade secret.

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

Get medical attention if symptoms occur. No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of mists, remove to fresh air and get medical attention.

Skin

 No specific treatment is necessary since this material is not likely to be hazardous by contact with the skin or mucous membranes. If skin irritation occurs: Get medical advice/attention.

Eye

If signs/symptoms develop, get medical attention.

Ingestion

 No specific treatment is necessary since this material is not likely to be hazardous by ingestion. If large quantities are accidentally ingested (greater than a tablespoon), get medical attention immediately.

Most important symptoms and effects, both acute and delayed

No data available

Indication of any immediate medical attention and special treatment needed

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media • Water spray, carbon dioxide, dry chemical powder or appropriate foam for surrounding fire.

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Unsuitable Extinguishing Media

No data available

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

• None known - product is not flammable or combustible.

Hazardous Combustion Products

No data available

Advice for firefighters

 As in any fire, wear self-contained breathing apparatus and full protective gear to prevent contact with skin and eyes.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

No special controls or personal protection required under conditions of intended use.
 In the event of bulk spills, wear suitable protective eyewear, clothing, protective boots and protective gloves. Refer to Section 8.

Emergency Procedures

 No emergency procedures are expected to be necessary when used in accordance with product literature.

Environmental precautions

No data available

Methods and material for containment and cleaning up

Containment/Clean-up Measures

 Contain spilled product. For small spills, add suitable absorbent material. Scoop up and place in an appropriate liquid-tight container equipped with a tight cover for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate, liquid-tight container equipped with a tight cover for disposal.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

 No special handling is required. Refer to Section 8. Use only in accordance with product literature.

Conditions for safe storage, including any incompatibilities

Storage

 Keep tightly closed. Store at room temperature 15-30°C (59-86°F), to maintain product integrity. use before expiration date marked on carton and/or container.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines

 Refer to the occupational exposure limits / guidelines for the individual product components.

Exposure Limits/Guidelines					
	Result	ACGIH	Canada Quebec	NIOSH	
Sodium borate		2 mg/m3 TWA (inhalable fraction, listed under Borate compounds, inorganic) 5 mg/m3 TWAE	5 mg/m3 TWAEV	5 mg/m3 TWA	
(1303-96-4)		6 mg/m3 STEL (inhalable fraction, listed under Borate compounds, inorganic)	Not established	Not established	

Boric acid	STELs	6 mg/m3 STEL (inhalable fraction, listed under Borate compounds, inorganic)	Not established	Not established
(10043-35-3)	TWAs	2 mg/m3 TWA (inhalable fraction, listed under Borate compounds, inorganic)	Not established	Not established

Exposure Control Notations

ACGIH

- •Boric acid (10043-35-3): Carcinogens: (A4 Not Classifiable as a Human Carcinogen (listed under Borate compounds, inorganic))
- •Sodium borate (1303-96-4): Carcinogens: (A4 Not Classifiable as a Human Carcinogen (listed under Borate compounds, inorganic))

Exposure Limits Supplemental

ACGIH

- •Boric acid (10043-35-3): TLV Basis Critical Effects: (upper respiratory tract irritation (listed under Borate compounds, inorganic))
- •Sodium borate (1303-96-4): TLV Basis Critical Effects: (upper respiratory tract irritation (listed under Borate compounds, inorganic))

Exposure controls

Engineering Measures/Controls

 Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable

Personal Protective Equipment

Respiratory

Eye/Face

No respiratory protection required during normal handling.

Hands

Skin/Body

Wear protective eyewear (goggles, face shield, or safety glasses) when handling bulk product before closed in final packaging.

Wear protective gloves.

No special personal protection required under conditions of intended use. In the event of a bulk spill, wear appropriate protective clothing.

Environmental Exposure Controls

No data available

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Color	Clear Colorless to slightly yellow.
Odor	No odor.		
General Properties		•	-
Boiling Point	Not relevant	Melting Point	Not relevant
Decomposition Temperature	Not relevant	pH	6.5 to 7.7
Specific Gravity/Relative Density	= 1.007	Water Solubility	Not relevant
Viscosity	30 to 65 Centipoise (cPs, cP) or mPas		
Volatility		•	-
Vapor Pressure	Not relevant	Vapor Density	Not relevant
Evaporation Rate	No data available		
Flammability		•	-
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Not relevant
Environmental	-	•	•

Octanol/Water Partition coefficient	Not relevant	

Section 10: Stability and Reactivity

Reactivity

• No dangerous reactions known.

Chemical stability

• Stable under normal temperatures and pressures.

Possibility of hazardous reactions

No data available

Conditions to avoid

• Extreme heat or cold. Do not freeze.

Incompatible materials

None.

Hazardous decomposition products

None expected.

Section 11 - Toxicological Information

Information on toxicological effects

		Components
Sodium chloride (< 1%)	7647- 14-5	Acute Toxicity: Ingestion/Oral-Rat LD50 • 3000 mg/kg; Ingestion/Oral-Rat TDLo • 1 mg/kg 24 Hour(s); Biochemical:Metabolism (intermediary):Effect on Na-K pump
Hydroxypropyl methyl cellulose E4M (< 1%)	9004- 65-3	Acute Toxicity: Ingestion/Oral-Mammal LD50 • >10000 mg/kg
Chlorihexidine gluconate (< 0.003%)	18472- 51-0	Acute Toxicity: Ingestion/Oral-Rat LD50 • 2430 mg/kg; Behavioral:Somnolence (general depressed activity); Behavioral:Excitement; Lungs, Thorax, or Respiration:Respiratory depression
Boric acid (< 1%)	10043- 35-3	Acute Toxicity: Ingestion/Oral-Rat LD50 • 2500 mg/kg; Behavioral:Convulsions or effect on seizure threshold; Behavioral:Ataxia; Reproductive: Ingestion/Oral-Rat TDL0 • 52 mg/kg (26W male); Reproductive Effects:Paternal Effects:Spermatogenesis; Ingestion/Oral-Rat TDL0 • 76 mg/kg (20D preg); Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus)
Sodium borate (< 1%)	1303- 96-4	Acute Toxicity: Ingestion/Oral-Rat LD50 • 2660 mg/kg; Reproductive: Ingestion/Oral-Rat TDL0 • 70 g/kg (90D male); Reproductive Effects:Paternal Effects:Testes, epididymis, sperm duct; Ingestion/Oral-Rat TDL0 • 70 g/kg (90D pre); Reproductive Effects:Maternal Effects:Ovaries, fallopian tubes; Ingestion/Oral-Rat TDL0 • 37 g/kg (multigenerations); Reproductive Effects:Effects on Newborn:Weaning or lactation index
Hydroxyalkyl phosphonate (< 1%)	3794- 83-0	Acute Toxicity: Ingestion/Oral-Rat LD50 • 990 mg/kg; Kidney, Ureter, and Bladder:Changes in both tubules and glomeruli

tion criteria not met
net

Carcinogenicity	UN GHS • Classification criteria not met
Germ Cell Mutagenicity	UN GHS • Classification criteria not met
Skin corrosion/Irritation	UN GHS • Classification criteria not met
Skin sensitization	UN GHS • Classification criteria not met
STOT-RE	UN GHS • Classification criteria not met
STOT-SE	UN GHS • Classification criteria not met
Toxicity for Reproduction	UN GHS • Classification criteria not met
Respiratory sensitization	UN GHS • Classification criteria not met
Serious eye damage/Irritation	UN GHS • Classification criteria not met

Potential Health Effects

Inhalation

Acute (Immediate)

Chronic (Delayed)

- Under normal conditions of use, no health effects are expected.
- Under normal conditions of use, no health effects are expected.

Skin

Acute (Immediate)

Chronic (Delayed)

- Under normal conditions of use, no health effects are expected.
- Under normal conditions of use, no health effects are expected.

Acute (Immediate)

Chronic (Delayed)

- Under normal conditions of use, no health effects are expected.
- Under normal conditions of use, no health effects are expected.

Ingestion

Acute (Immediate)

- Small amounts (a tablespoonful) swallowed are not likely to cause injury: swallowing amounts larger than that may cause gastrointestinal irritation.
- **Chronic (Delayed)** No data available

Carcinogenic Effects			
CAS NTP			
Boric acid	10043-35-3	Evidence of Carcinogenicity	

Section 12 - Ecological Information

Toxicity

This material has not been tested for environmental effects.

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in Soil

No data available

Other adverse effects

Section 13 - Disposal Considerations

Waste treatment methods

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Product waste

Packaging waste

- Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	NDA	Not regulated	NDA	NDA	NDA
TDG	NDA	NDA	NDA	NDA	NDA
IMO/IMDG	NDA	Not regulated	NDA	NDA	NDA
ADN	NDA	NDA	NDA	NDA	NDA
ADR/RID	NDA	NDA	NDA	NDA	NDA
IATA/ICAO	NDA	Not regulated	NDA	NDA	NDA

Special precautions for user • No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture SARA Hazard Classifications • No data available

	Inventory					
Component	CAS	Canada DSL	EU EINECS	TSCA		
Sodium borate	1303-96-4	Yes	No	Yes		
Boric acid	10043-35-3	Yes	Yes	Yes		
Chlorihexidine gluconate	18472-51-0	Yes	Yes	Yes		
Hydroxyalkyl phosphonate	3794-83-0	Yes	Yes	Yes		
Poloxamine	26316-40-5	Yes	No	Yes		
Hydroxypropyl methyl cellulose E4M	9004-65-3	Yes	No	Yes		
Glucam E-20	68239-42-9	Yes	No	Yes		
Polyaminopropyl biguanide HCl (20%)	32289-58-0	Yes	No	No		
Sodium chloride	7647-14-5	Yes	Yes	Yes		
Purified water	7732-18-5	Yes	Yes	Yes		

Canada

Labor

Canada - WHMIS - Classifications of Substances

· Sodium borate

1303-96-4 D2B

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Hydroxypropyl methyl cellulose E4M	9004-65-3	Uncontrolled product according to WHMIS classification criteria
Chlorihexidine gluconate	18472-51-0	Not Listed
Poloxamine	26316-40-5	Not Listed
Hydroxyalkyl phosphonate	3794-83-0	Not Listed
Sodium chloride	7647-14-5	Uncontrolled product according to WHMIS classification criteria
Boric acid	10043-35-3	D2A
Polyaminopropyl biguanide HCl (20%)	32289-58-0	Not Listed
Purified water	7732-18-5	Uncontrolled product according to WHMIS classification criteria
Glucam E-20	68239-42-9	Not Listed
Canada - WHMIS - Ingredient Disclosure List		
Sodium borate	1303-96-4	1 %
Hydroxypropyl methyl cellulose E4M	9004-65-3	Not Listed
Chlorihexidine gluconate	18472-51-0	Not Listed
Poloxamine	26316-40-5	Not Listed
Hydroxyalkyl phosphonate	3794-83-0	Not Listed
Sodium chloride	7647-14-5	Not Listed
Boric acid	10043-35-3	1 %
Polyaminopropyl biguanide HCl (20%)	32289-58-0	Not Listed
Purified water	7732-18-5	Not Listed
Glucam E-20	68239-42-9	Not Listed

Europe

Other St. CLB (4272/2009) Appey VI Table 3.2. Classification		
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification • Sodium borate	1303-96-4	Repr.Cat.2; R60-61
Hydroxypropyl methyl cellulose E4M	9004-65-3	Not Listed
Chlorihexidine gluconate	18472-51-0	Not Listed
Poloxamine	26316-40-5	Not Listed
Hydroxyalkyl phosphonate	3794-83-0	Not Listed
Sodium chloride	7647-14-5	Not Listed
Boric acid	10043-35-3	Repr.Cat.2; R60-61
Polyaminopropyl biguanide HCl (20%)	32289-58-0	Not Listed
Purified water	7732-18-5	Not Listed
• Glucam E-20	68239-42-9	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limi	its	
Sodium borate	1303-96-4	8.5%<=C: Repr.Cat.2; R:60-61
Hydroxypropyl methyl cellulose E4M	9004-65-3	Not Listed
Chlorihexidine gluconate	18472-51-0	Not Listed
Poloxamine	26316-40-5	Not Listed
Hydroxyalkyl phosphonate	3794-83-0	Not Listed
Sodium chloride	7647-14-5	Not Listed
Boric acid	10043-35-3	5.5%<=C: Repr.Cat.2; R:60-61
Polyaminopropyl biguanide HCl (20%)	32289-58-0	Not Listed
Purified water	7732-18-5	Not Listed
	68239-42-9	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling		
Sodium borate	1303-96-4	T R:60-61 S:53-45
Hydroxypropyl methyl cellulose E4M	9004-65-3	Not Listed
Chlorihexidine gluconate	18472-51-0	Not Listed
• Poloxamine	26316-40-5	Not Listed
Hydroxyalkyl phosphonate	3794-83-0	Not Listed
Sodium chloride	7647-14-5	Not Listed
Boric acid	10043-35-3	T R:60-61 S:53-45
Polyaminopropyl biguanide HCl (20%)	32289-58-0	Not Listed
Purified water	7732-18-5	Not Listed
• Glucam E-20	68239-42-9	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases		
Sodium borate	1303-96-4	S:53-45
Hydroxypropyl methyl cellulose E4M	9004-65-3	Not Listed
Chlorihexidine gluconate	18472-51-0	Not Listed
• Poloxamine	26316-40-5	Not Listed
Hydroxyalkyl phosphonate	3794-83-0	Not Listed
Sodium chloride	7647-14-5	Not Listed
Boric acid	10043-35-3	S:53-45
Polyaminopropyl biguanide HCl (20%)	32289-58-0	Not Listed
Purified water	7732-18-5	Not Listed
Glucam E-20	68239-42-9	Not Listed

United States - California

Environment		
U.S California - Proposition 65 - Carcinogens List		
Sodium borate	1303-96-4	Not Listed
Hydroxypropyl methyl cellulose E4M	9004-65-3	Not Listed
Chlorihexidine gluconate	18472-51-0	Not Listed
Poloxamine	26316-40-5	Not Listed
Hydroxyalkyl phosphonate	3794-83-0	Not Listed
Sodium chloride	7647-14-5	Not Listed
Boric acid	10043-35-3	Not Listed
Polyaminopropyl biguanide HCl (20%)	32289-58-0	Not Listed
Purified water	7732-18-5	Not Listed
Glucam E-20	68239-42-9	Not Listed
U.S California - Proposition 65 - Developmental Toxicity		
Sodium borate	1303-96-4	Not Listed
Hydroxypropyl methyl cellulose E4M	9004-65-3	Not Listed
Chlorihexidine gluconate	18472-51-0	Not Listed
Poloxamine	26316-40-5	Not Listed
Hydroxyalkyl phosphonate	3794-83-0	Not Listed
Sodium chloride	7647-14-5	Not Listed
Boric acid	10043-35-3	Not Listed
Polyaminopropyl biguanide HCl (20%)	32289-58-0	Not Listed
Purified water	7732-18-5	Not Listed
Glucam E-20	68239-42-9	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Female		
Sodium borate	1303-96-4	Not Listed
Hydroxypropyl methyl cellulose E4M	9004-65-3	Not Listed
Chlorihexidine gluconate	18472-51-0	Not Listed

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Poloxamine	26316-40-5	Not Listed	
Hydroxyalkyl phosphonate	3794-83-0	Not Listed	
Sodium chloride	7647-14-5	Not Listed	
Boric acid	10043-35-3	Not Listed	
Polyaminopropyl biguanide HCI (20%)	32289-58-0	Not Listed	
Purified water	7732-18-5	Not Listed	
Glucam E-20	68239-42-9	Not Listed	
U.S California - Proposition 65 - Reproductive Toxicity - Male			
Sodium borate	1303-96-4	Not Listed	
Hydroxypropyl methyl cellulose E4M	9004-65-3	Not Listed	
Chlorihexidine gluconate	18472-51-0	Not Listed	
Poloxamine	26316-40-5	Not Listed	
Hydroxyalkyl phosphonate	3794-83-0	Not Listed	
Sodium chloride	7647-14-5	Not Listed	
Boric acid	10043-35-3	Not Listed	
 Polyaminopropyl biguanide HCl (20%) 	32289-58-0	Not Listed	
Purified water	7732-18-5	Not Listed	
Glucam E-20	68239-42-9	Not Listed	

Section 16 - Other Information

Last Revision Date Preparation Date

Disclaimer/Statement of Liability

- 17/February/2015
- 17/February/2015
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