Safety Data Sheet

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Section 1: Identification

Product identifier

Product Name

Product Code

• Tetracaine Hydrochloride Ophthalmic Solution, 0.5%

• AB09111; Core No. 091; NDC 24208-920-64

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

Recommended use

 Finshed Pharmaceutical Product; For procedures in which a rapid and short-acting topical ophthalmic anesthetic is indicated such as in tonometry, gonioscopy, removal of corneal foreign bodies, conjunctival scraping for diagnostic purposes, suture removal from the cornea, other short corneal and conjunctival procedures.

Restrictions on use

 Refer to the product insert and/or prescribing information for restrictions on use and contraindications.

Details of the supplier of the safety data sheet

Manufacturer

Bausch & Lomb

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

This safety data sheet is written to provide health, safety and environmental information for people handling this formulated product in the workplace. It is not intended to provide information relevant to consumer use of the product.

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

No data available

Label elements

UN GHS

WARNING



Hazard statements • Anesthetic effect on eyes May cause eye irritation

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May cause serious eye damage

Precautionary statements

Prevention • Use personal protective equipment as required. Wash thoroughly after handling.

Response • IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Storage/Disposal • Keep tightly closed. Store at room temperature 15-25°C (59-77°F), to maintain product integrity. Use before date marked on carton and/or container.

Other hazards

UN GHS

No data available

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% TO 5%	UN GHS: Skin Irrit. 2; Eye Irrit. 2A; Acute Tox. Oral 5; Repr. 1
Chlorobutanol	CAS:57-15-8 EINECS:200-317-6	0.4%	UN GHS: NDA
Edetate Disodium Dihydrate	CAS:139-33-3 EINECS:205-358-3	< 0.1%	UN GHS: NDA
Potassium chloride	CAS:7447-40-7 EINECS:231-211-8	< 1%	UN GHS: Skin Irrit. 2; Eye Irrit. 2A; Acute Tox. Oral 5; STOT RE 1
Tetracaine Hydrochloride	CAS:136-47-0 EINECS:205-248-5	0.5%	UN GHS: NDA
Water	CAS:7732-18-5 EINECS:231-791-2	Balance	UN GHS: Classification criteria not met

Hydrochloric Acid (CAS:7647-01-0, EINECS:231-595-7) and/or Sodium Hydroxide (CAS# 1310-73-2, EINECS: 215-185-5) may be added to adjust the pH.

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

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

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 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.

Eye

For accidental and non-therapeutic applications, flush eyes with copious amounts of

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Ingestion

water for at least 15 minutes. Get medical attention if eye irritation persists.

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

 A rare, severe, immediate allergic corneal reaction has been reported, characterized by acute diffuse filament formation and/or sloughing of large areas of dead skin, swelling and inflammation of the iris.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

 May cause temporary stinging, burning, and conjunctival redness. After installation, the eye may be scratched without pain, so should not be rubbed. May cause hypersensitivity.

Section 5: Fire-Fighting Measures

Extinguishing media

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

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.

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Conditions for safe storage, including any incompatibilities

Storage

 Keep tightly closed. Store at room temperature 15-25°C (59-77°F), to maintain product integrity. Use before date marked on carton and/or container.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines

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

Exposure Limits/Guidelines			
Result ACGIH			
Boric acid	STELs	6 mg/m3 STEL (inhalable fraction, listed under Borate compounds, inorganic)	
(10043-35-3) TWAs 2 mg/m3 TWA (inhalable fraction, listed under Borate compounds, inorganic)		2 mg/m3 TWA (inhalable fraction, listed under Borate compounds, inorganic)	

Exposure Control Notations

ACGIH

•Boric acid (10043-35-3): Carcinogens: (A4 - Not Classifiable as a Human Carcinogen (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 level.

Personal Protective Equipment

Respiratory

No respiratory protection required during normal handling.

Eye/Face

Avoid contact with the eye. No special controls or personal protection required under conditions of intended use. In the event of a bulk spill, appropriate eye protection should be worn. Wear protective eyewear (goggles, face shield, or safety glasses) when handling bulk product before closed in final packaging.

Hands

Skin/Body

Gloves are not required under normal handling conditions.

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	Colorless to slightly yellow.
Odor	Camphor-like	Odor Threshold	Not relevant
General Properties			
Boiling Point	No data available	Melting Point	Not relevant
Decomposition Temperature	No data available	рН	3.7 to 6
Specific Gravity/Relative Density	= 1.008	Water Solubility	Soluble
Viscosity	No data available		
Volatility			
Vapor Pressure	Not relevant	Vapor Density	Not relevant
Evaporation Rate	No data available		

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Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Not relevant
Environmental			
Octanol/Water Partition coefficient	No data available		

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

Other Material Information

 Toxicological information refers to raw materials only. Concentrations and toxicological effects are substantially reduced in the product.

Components				
Tetracaine Hydrochloride (0.5%)	136-47- 0	cute Toxicity: Ingestion/Oral-Mouse LD50 • 160 mg/kg; Behavioral:Muscle weakness; Lungs, Thorax, r Respiration:Respiratory depression; Lungs, Thorax, or Respiration:Other changes		
Boric acid (1% TO 5%)	10043- 35-3	Acute Toxicity: Ingestion/Oral-Rat LD50 • 2500 mg/kg; Behavioral:Convulsions or effect on seizure threshold; Behavioral:Ataxia		
Potassium chloride (< 1%)	7447-40- 7	Acute Toxicity: Ingestion/Oral-Rat LD50 • 2600 mg/kg		
Edetate Disodium Dihydrate (< 0.1%)	139-33- 3	Acute Toxicity: Ingestion/Oral-Rat LD50 • 2 g/kg		
Chlorobutanol (0.4%)	57-15-8	Acute Toxicity: Ingestion/Oral-Rat LD50 • 510 mg/kg		

GHS Properties	Classification	
Acute toxicity UN GHS • Classification criteria not met		
Aspiration Hazard UN GHS • Classification criteria not met		
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	

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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 • Eye Irritation 2A	

Potential Health Effects

Inhalation

Acute (Immediate)

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

Chronic (Delayed)

No data available.

Skin

Acute (Immediate)
Chronic (Delayed)

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

No data available.

Eye

Acute (Immediate)

• Transient symptoms (signs) such as stinging, burning and conjunctival redness may

Chronic (Delayed)

Prolonged use results in diminished duration of anesthesia and retarded healing. This
may cause the drug to be used more frequently creating a "vicious circle".
 Subsequent corneal infection and/or corneal opacification with accompanying
permanent visual loss or corneal perforation may occur.

Ingestion

Acute (Immediate)

 Small amounts (less than 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

Product waste

• Waste characterizations and compliance with applicable laws are the responsibility

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Packaging waste

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	Not regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not regulated	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
Chlorobutanol	57-15-8	Yes	Yes	Yes
Edetate Disodium Dihydrate	139-33-3	Yes	Yes	Yes
Tetracaine Hydrochloride	136-47-0	Yes	Yes	No
Boric acid	10043-35-3	Yes	Yes	Yes
Potassium chloride	7447-40-7	Yes	Yes	Yes
Water	7732-18-5	Yes	Yes	Yes

Canada

Canada - WHMIS - Classifications of Substances		
Edetate Disodium Dihydrate	139-33-3	Uncontrolled product according to WHMIS classification criteria (including 3.5%)
Potassium chloride	7447-40-7	Uncontrolled product according to WHMIS classification criteria (including 23.8%)
Boric acid	10043-35-3	D2A
Tetracaine Hydrochloride	136-47-0	Not Listed
Chlorobutanol	57-15-8	Not Listed Uncontrolled product
Water	7732-18-5	according to WHMIS

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		classification criteria
Canada - WHMIS - Ingredient Disclosure List		
Edetate Disodium Dihydrate	139-33-3	Not Listed
Potassium chloride	7447-40-7	Not Listed
Boric acid	10043-35-3	1 %
Tetracaine Hydrochloride	136-47-0	Not Listed
Chlorobutanol	57-15-8	Not Listed
Water	7732-18-5	Not Listed

Europe

Other The Control of		
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification		
Edetate Disodium Dihydrate	139-33-3	Not Listed
Potassium chloride	7447-40-7	Not Listed
Boric acid	10043-35-3	Repr.Cat.2; R60-61
Tetracaine Hydrochloride	136-47-0	Not Listed
Chlorobutanol	57-15-8	Not Listed
Water	7732-18-5	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits		
Edetate Disodium Dihydrate	139-33-3	Not Listed
Potassium chloride	7447-40-7	Not Listed
Boric acid	10043-35-3	5.5%<=C: Repr.Cat.2; R:60-6
Tetracaine Hydrochloride	136-47-0	Not Listed
Chlorobutanol	57-15-8	Not Listed
Water	7732-18-5	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling		
Edetate Disodium Dihydrate	139-33-3	Not Listed
Potassium chloride	7447-40-7	Not Listed
Boric acid	10043-35-3	T R:60-61 S:53-45
Tetracaine Hydrochloride	136-47-0	Not Listed
Chlorobutanol	57-15-8	Not Listed
Water	7732-18-5	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases		
Edetate Disodium Dihydrate	139-33-3	Not Listed
Potassium chloride	7447-40-7	Not Listed
Boric acid	10043-35-3	S:53-45
Tetracaine Hydrochloride	136-47-0	Not Listed
Chlorobutanol	57-15-8	Not Listed
• Water	7732-18-5	Not Listed

United States

ironment S CERCLA/SARA - Hazardous Substances and their Reporta	ble Quantities	
Edetate Disodium Dihydrate	139-33-3	Not Listed
Potassium chloride	7447-40-7	Not Listed
Soric acid	10043-35-3	Not Listed
Tetracaine Hydrochloride	136-47-0	Not Listed
Chlorobutanol	57-15-8	Not Listed
Water	7732-18-5	Not Listed

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United States - California

Environment		
U.S California - Proposition 65 - Carcinogens List		
Edetate Disodium Dihydrate	139-33-3	Not Listed
Potassium chloride	7447-40-7	Not Listed
Boric acid	10043-35-3	Not Listed
Tetracaine Hydrochloride	136-47-0	Not Listed
Chlorobutanol	57-15-8	Not Listed
• Water	7732-18-5	Not Listed
U.S California - Proposition 65 - Developmental Toxicity		
Edetate Disodium Dihydrate	139-33-3	Not Listed
Potassium chloride	7447-40-7	Not Listed
Boric acid	10043-35-3	Not Listed
Tetracaine Hydrochloride	136-47-0	Not Listed
Chlorobutanol	57-15-8	Not Listed
• Water	7732-18-5	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Female		
Edetate Disodium Dihydrate	139-33-3	Not Listed
Potassium chloride	7447-40-7	Not Listed
Boric acid	10043-35-3	Not Listed
Tetracaine Hydrochloride	136-47-0	Not Listed
Chlorobutanol	57-15-8	Not Listed
• Water	7732-18-5	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Male		
Edetate Disodium Dihydrate	139-33-3	Not Listed
Potassium chloride	7447-40-7	Not Listed
Boric acid	10043-35-3	Not Listed
Tetracaine Hydrochloride	136-47-0	Not Listed
Chlorobutanol	57-15-8	Not Listed
• Water	7732-18-5	Not Listed

Section 16 - Other Information

Last Revision Date Preparation Date

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- 13/May/2015
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