SAFETY DATA SHEETS

This SDS packet was issued with item:

078949199

N/A

Safety Data Sheet



Section 1: Identification

Product identifier

Product Name

Product Code

Tobramycin Ophthalmic Solution

AB24207; Core No. 242; NDC 24208-0290-05

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

Recommended use

 Finshed Pharmaceutical Product; Tobramycin Ophthalmic Solution is a topical antibiotic indicated in the treatment of external infections of the eye and its adnexa caused by susceptible bacteria.

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

Classification criteria not met

Label elements

UN GHS

Precautionary statements

Storage/Disposal • Keep tightly closed and store in upright position.

Store product at 2-25°C (36-77°F).

Avoid excessive heat.

Use before expiration date marked on carton and/or container.

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

		Compositio	on .
Chemical Name	Identifiers	%	Classifications According to Regulation/Directive
Benzalkonium Chloride 50% Solution	CAS:139-07-1 EINECS:205-351-5	0.01%	UN GHS: NDA
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
Sodium chloride	CAS:7647-14-5 EINECS:231-598-3	< 1%	UN GHS: Skin Irrit. 2; Eye Irrit. 2A; Acute Tox. Oral 5
Sodium Sulfate Decahydrate	CAS:7727-73-3	< 1%	UN GHS: Skin Irrit. 2; Eye Irrit. 2A
Tobramycin	CAS:32986-56-4 EINECS:251-322-5	0.3%	UN GHS: NDA
Tyloxapol	CAS:25301-02-4	< 1%	UN GHS: Skin Irrit. 2; Eye Irrit. 2A
Water	CAS:7732-18-5 EINECS:231-791-2	Balance	UN GHS: Classification criteria not met

Sulfuric Acid (CAS:7664-93-9, EINECS:231-639-5) 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

 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 if cough or other symptoms develop.

Skin

Eye

 IF ON SKIN (and not prescribed): Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Ingestion

 For accidental and non-therapeutic applications, flush eyes with copious amounts of water for at least 15 minutes. Get medical attention.

If swallowed, get medical help or contact a Poison Control Center immediately.

Most important symptoms and effects, both acute and delayed

No data available

Indication of any immediate medical attention and special treatment needed Other information

Additional details are provided on the product packaging and/or the product insert.

Section 5: Fire-Fighting Measures

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Extinguishing media

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

Unsuitable Extinguishing Media

No data available.

Firefighting Procedures

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

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

None known.

Hazardous Combustion Products

None known.

Advice for firefighters

Refer to Section 5 Firefighting Procedures.

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. Evacuate immediate area. Ensure adequate ventilation. 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 on the environmental impact of this product.

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.

Prohibited Materials

None known.

Reference to other sections

Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

 When using this product: do not touch tip of container to any surface to avoid contamination, remove contact lenses before using, and always replace the cap after use. Use only in accordance with product literature.

Conditions for safe storage, including any incompatibilities

Storage

• Keep tightly closed. Store between 2-25°C (36-77°F), to maintain product integrity. use before expiration date marked on carton and/or container. Avoid excessive heat.

Special Packaging Materials • Maintain product in original container only.

Incompatible Materials or Ignition Sources

None specified.

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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
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)

Exposure Control Notations

ACGIH

Exposure controls

Engineering
Measures/Controls
Personal Protective Equipment

 No special controls are required under conditions of intended use. Local exhaust ventilation should be provided when handling bulk product.

Respiratory

Hands

Skin/Body

- No special controls or personal protection required under conditions of intended use. In the event of a bulk spill, a NIOSH-certified air-purifying respirator equipped with HEPA -organic vapor cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits and when adequate oxygen is present. Use a positive pressure air-supplied respirator if there is any potential for an uncontrolled release or any other circumstances where air purifying respirators may not provide adequate protection.
- **Eye/Face** No special personal protection required under conditions of intended use. In the event of a bulk spill, appropriate eye protection should be worn.
 - No special personal protection required under conditions of intended use. In the event of a bulk spill, wear rubber or nitrile gloves.
 - No special personal protection required under conditions of intended use. In the event of a bulk spill, wear appropriate protective clothing.

Thermal hazards

General Industrial Hygiene Considerations

Environmental Exposure Controls

None known.

Wash thoroughly with soap and water after handling.

 No special controls are required under conditions of intended use. In the event of a bulk spill, prevent spilled material from entering storm sewers or drains, waterways, and contact with the soil.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description				
Physical Form	Liquid	Color	Clear, colorless to pale yellow.	
Odor	No odor.	Odor Threshold	Not relevant	
General Properties		-		
Boiling Point	No data available	Melting Point	Not relevant	
Decomposition Temperature	No data available	рН	7 to 8	
Specific Gravity/Relative Density	= 1.009	Water Solubility	Water soluble	
Viscosity	No data available			
Volatility	•	-	-	

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[•]Boric acid (10043-35-3): Carcinogens: (A4 - Not Classifiable as a Human Carcinogen (listed under Borate compounds, inorganic))

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	No data available		

Section 10: Stability and Reactivity

Reactivity

Stable under normal temperatures and pressures.

Chemical stability

 Stable when stored at room temperature 15-25°C (59-77°F). Use before expiration date marked on carton and/or container.

Possibility of hazardous reactions

Will not occur.

Conditions to avoid

Avoid exposure to extreme heat or cold.

Incompatible materials

None known.

Hazardous decomposition products

None known.

Section 11 - Toxicological Information

Information on toxicological effects

		Components
Tobramycin (0.3%)	32986-56- 4	Acute Toxicity: Ingestion/Oral-Mouse LD50 • >11500 mg/kg
Boric acid (1% TO 5%)		Acute Toxicity: Ingestion/Oral-Rat LD50 • 2500 mg/kg; Behavioral:Convulsions or effect on seizure threshold; Behavioral:Ataxia
Sodium chloride (< 1%)	7647-14- 5	Acute Toxicity: Ingestion/Oral-Rat LD50 • 3000 mg/kg
Tyloxapol (< 1%)	25301-02- 4	Acute Toxicity: Ingestion/Oral-Rat LD50 • >5 g/kg
Benzalkonium Chloride 50% Solution (0.01%)	139-07-1	Acute Toxicity: Ingestion/Oral-Rat LD50 • 400 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

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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)

• No hazard when used as directed.

Chronic (Delayed)

No data available.

Skin

Acute (Immediate)

Not expected to cause skin irritation.

Chronic (Delayed)

No data available.

Eye

Acute (Immediate)

 May cause mild irritation. Clinically apparent signs and symptoms of an overdose of tobramycin ophthalmic solution (punctate keratitis, erythema, increased lacrimation, edema and lid itching).

Chronic (Delayed)

No data available

Ingestion

Acute (Immediate)

May be harmful if swallowed.

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

		Inve	ntory	
Component	CAS	Canada DSL	EU EINECS	TSCA
Benzalkonium Chloride 50% Solution	139-07-1	Yes	Yes	Yes
Boric acid	10043-35-3	Yes	Yes	Yes
Tyloxapol	25301-02-4	Yes	No	No
Sodium chloride	7647-14-5	Yes	Yes	Yes
Sodium Sulfate Decahydrate	7727-73-3	No	No	No
Tobramycin	32986-56-4	Yes	Yes	No
Water	7732-18-5	Yes	Yes	Yes

Canada

		Uncontrolled product
Sodium chloride	7647-14-5	Uncontrolled product according to WHMIS classification criteria
Boric acid	10043-35-3	D2A
Benzalkonium Chloride 50% Solution	139-07-1	Not Listed
Sodium Sulfate Decahydrate	7727-73-3	Not Listed
 Tyloxapol 	25301-02-4	Not Listed
Tobramycin	32986-56-4	Not Listed
Water	7732-18-5	Uncontrolled product according to WHMIS classification criteria

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Sodium chloride	7647-14-5	Not Listed
Boric acid	10043-35-3	1 %
Benzalkonium Chloride 50% Solution	139-07-1	Not Listed
Sodium Sulfate Decahydrate	7727-73-3	Not Listed
Tyloxapol	25301-02-4	Not Listed
Tobramycin	32986-56-4	Not Listed
Water	7732-18-5	Not Listed

Environment Canada - CEPA - Priority Substances List		
Sodium chloride	7647-14-5	Not Listed
Boric acid	10043-35-3	Not Listed
 Benzalkonium Chloride 50% Solution 	139-07-1	Not Listed
Sodium Sulfate Decahydrate	7727-73-3	Not Listed
 Tyloxapol 	25301-02-4	Not Listed
Tobramycin	32986-56-4	Not Listed
• Water	7732-18-5	Not Listed

Europe

Other		
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification		
Sodium chloride	7647-14-5	Not Listed
Boric acid	10043-35-3	Repr.Cat.2; R60-61
Benzalkonium Chloride 50% Solution	139-07-1	Not Listed
Sodium Sulfate Decahydrate	7727-73-3	Not Listed
• Tyloxapol	25301-02-4	Not Listed
Tobramycin	32986-56-4	Not Listed
• Water	7732-18-5	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits		
Sodium chloride	7647-14-5	Not Listed
Boric acid	10043-35-3	5.5%<=C: Repr.Cat.2; R:60-61
Benzalkonium Chloride 50% Solution	139-07-1	Not Listed
Sodium Sulfate Decahydrate	7727-73-3	Not Listed
• Tyloxapol	25301-02-4	Not Listed
Tobramycin	32986-56-4	Not Listed
• Water	7732-18-5	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling		
Sodium chloride	7647-14-5	Not Listed
Boric acid	10043-35-3	T R:60-61 S:53-45
Benzalkonium Chloride 50% Solution	139-07-1	Not Listed
Sodium Sulfate Decahydrate	7727-73-3	Not Listed
• Tyloxapol	25301-02-4	Not Listed
Tobramycin	32986-56-4	Not Listed
• Water	7732-18-5	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases		
Sodium chloride	7647-14-5	Not Listed
Boric acid	10043-35-3	S:53-45
Benzalkonium Chloride 50% Solution	139-07-1	Not Listed

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ium Sulfate Decahydrate	7727-73-3	Not Listed
oxapol	25301-02-4	Not Listed
ramycin	32986-56-4	Not Listed
ter	7732-18-5	Not Listed
er	1132-18	3-5

United States

nvironment U.S CERCLA/SARA - Hazardous Substances and their Rep	portable Quantities	
Sodium chloride	7647-14-5	Not Listed
Boric acid	10043-35-3	Not Listed
Benzalkonium Chloride 50% Solution	139-07-1	Not Listed
Sodium Sulfate Decahydrate	7727-73-3	Not Listed
Tyloxapol	25301-02-4	Not Listed
Tobramycin	32986-56-4	Not Listed
Water	7732-18-5	Not Listed

United States - California

Environment		
U.S California - Proposition 65 - Carcinogens List • Sodium chloride	7647-14-5	Not Listed
Sodium chioride Boric acid	7647-14-5 10043-35-3	Not Listed Not Listed
Benzalkonium Chloride 50% Solution Oatling Outfate Decade indexts	139-07-1	Not Listed
Sodium Sulfate Decahydrate	7727-73-3	Not Listed
• Tyloxapol	25301-02-4	Not Listed
• Tobramycin	32986-56-4	Not Listed
• Water	7732-18-5	Not Listed
U.S California - Proposition 65 - Developmental Toxicity		
Sodium chloride	7647-14-5	Not Listed
Boric acid	10043-35-3	Not Listed
Benzalkonium Chloride 50% Solution	139-07-1	Not Listed
Sodium Sulfate Decahydrate	7727-73-3	Not Listed
• Tyloxapol	25301-02-4	Not Listed
Tobramycin	32986-56-4	Not Listed
• Water	7732-18-5	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Female		
Sodium chloride	7647-14-5	Not Listed
Boric acid	10043-35-3	Not Listed
Benzalkonium Chloride 50% Solution	139-07-1	Not Listed
Sodium Sulfate Decahydrate	7727-73-3	Not Listed
Tyloxapol	25301-02-4	Not Listed
Tobramycin	32986-56-4	Not Listed
• Water	7732-18-5	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Male		
Sodium chloride	7647-14-5	Not Listed
Boric acid	10043-35-3	Not Listed
Benzalkonium Chloride 50% Solution	139-07-1	Not Listed
Sodium Sulfate Decahydrate	7727-73-3	Not Listed
Tyloxapol	25301-02-4	Not Listed
Tobramycin	32986-56-4	Not Listed
• Water	7732-18-5	Not Listed

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Section 16 - Other Information

Last Revision Date Preparation Date Disclaimer/Statement of

Liability

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