Safety Data Sheet

BAUSCH+LOMB

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Section 1: Identification

Product identifier

Product Name • Acetic Acid Aluminum Acetate Otic Solution

Product Code • AB06620; Core No. 066; NDC 24208-0615-77

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

Recommended use• Finished Pharmaceutical Product; For the treatment of superficial infections of the external auditory canal caused by organisms susceptible to the action of the

antimicrobial.

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

• Skin Mild Irritation 3
Eye Mild Irritation 2B

Label elements

UN GHS

WARNING

Hazard statements • Causes mild skin irritation

Causes eye irritation

Precautionary statements

Prevention • Wash thoroughly after handling.

Use personal protective equipment as required.

Response • IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

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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.

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

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
Acetic acid	CAS:64-19-7 EINECS:200-580-7	2%	UN GHS: Skin Corr. 1A; Flam. Liq. 3
Aluminum sulfate	CAS:10043-01-3 EINECS:233-135-0	< 1%	UN GHS: NDA
Boric acid	CAS:10043-35-3 EINECS:233-139-2	< 0.1%	UN GHS: Skin Irrit. 2; Eye Irrit. 2A; Acute Tox. Oral 5; Repr. 1
Calcium carbonate	CAS:471-34-1 EINECS:207-439-9	< 1%	UN GHS: Skin Irrit. 2; Eye Irrit. 2A
Sodium hydroxide	CAS:1310-73-2 EINECS:215-185-5	< 1%	UN GHS: Skin Corr. 1A
Water	CAS:7732-18-5 EINECS:231-791-2	> 90%	UN GHS: Classification criteria not met

Glacial Acetic Acid (CAS:64-19-7, EINECS:200-580-7) 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

 No inhalation exposure expected with this formulation under normal conditions of use. If signs/symptoms develop, get medical attention.

Skin

• Flush with fresh water if contact with skin or eyes. If skin irritation occurs: Get medical advice/attention.

Eye

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.

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.

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Most important symptoms and effects, both acute and delayed

No data available

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

 Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media • SMALL FIRES: Dry chemical, CO2, water spray or regular foam. LARGE FIRE: Water spray, fog or regular foam.

Unsuitable Extinguishing

No data available

Media

Special hazards arising from the substance or mixture

Unusual Fire and Explosion

Hazards

None known.

Hazardous Combustion

None known.

Products Advice for firefighters

> Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA).

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

 Keep unauthorized personnel away. Ventilate closed spaces before entering. Stop leak if you can do it without risk.

Environmental precautions

 Prevent spilled material from entering storm sewers or drains, waterways, and contact with soil.

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. Dispose of in accordance with Section 13.

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. Use only in accordance with product literature.

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. Protect from freezing

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Incompatible Materials or Ignition Sources

None specified.

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	OSHA	
Boric acid	STELs	6 mg/m3 STEL (inhalable fraction, listed under Borate compounds, inorganic)	Not established	Not established	Not established	
(10043-35-3)	TWAs	2 mg/m3 TWA (inhalable fraction, listed under Borate compounds, inorganic)	Not established	Not established	Not established	
Calcium carbonate (471-34-1)	TWAs	Not established	10 mg/m3 TWAEV (total dust)	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)	Not established	
Sodium hydroxide	Ceilings	2 mg/m3 Ceiling	2 mg/m3 Ceiling	2 mg/m3 Ceiling	Not established	
(1310-73-2)	TWAs	Not established	Not established	Not established	2 mg/m3 TWA	
Acetic acid	STELs	15 ppm STEL	15 ppm STEV; 37 mg/m3 STEV	15 ppm STEL; 37 mg/m3 STEL	Not established	
(64-19-7)	TWAs	10 ppm TWA	10 ppm TWAEV; 25 mg/m3 TWAEV	10 ppm TWA; 25 mg/m3 TWA	10 ppm TWA; 25 mg/m3 TWA	

Exposure Control Notations ACGIH

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

• In the event of a bulk spill, and where risk assessment shows that air-purifying respirators are appropriate, a NIOSH (US) or CEN (EU) -certified air-purifying respirator equipped with HEPA cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, when adequate oxygen is present and as a backup to engineering controls. 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

 Wear protective eyewear (goggles, face shield, or safety glasses) when handling bulk product before closed in final packaging. In the event of a spill, appropriate eye protection should be worn.

Hands

Wear appropriate gloves.

Skin/Body

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

General Industrial Hygiene

Wash thoroughly after handling.

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

Considerations

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 .
Odor	Vinegar-like	Odor Threshold	Not relevant
General Properties			
Boiling Point	No data available	Melting Point	Not relevant
Decomposition Temperature	No data available	рН	3.5 to 5
Specific Gravity/Relative Density	= 1.012	Water Solubility	Miscible
Viscosity	No data available		
Volatility			
Vapor Pressure	Not relevant	Vapor Density	Not relevant
Evaporation Rate	Not relevant		
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 reaction known under conditions of normal use.

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

No data available

Hazardous decomposition products

No data available

Section 11 - Toxicological Information

Information on toxicological effects

Components			
Aluminum sulfate (< 1%)	10043-01- 3	Acute Toxicity: Ingestion/Oral-Mouse LD50 • 6207 mg/kg	

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Calcium carbonate (< 1%)	471-34-1	Acute Toxicity: Ingestion/Oral-Rat LD50 • 6450 mg/kg
Boric acid (< 0.1%)		Acute Toxicity: Ingestion/Oral-Rat LD50 • 2500 mg/kg; Behavioral:Convulsions or effect on seizure threshold; Behavioral:Ataxia
Acetic acid (2%)	64-19-7	Acute Toxicity: Ingestion/Oral-Mouse LD50 • 4960 mg/kg
Sodium hydroxide (< 1%)	1310-73-2	Acute Toxicity: Intraperitoneal-Mouse LD50 • 40 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 • Skin Mild Irritation 3
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 Mild Irritation 2B

Potential Health Effects

Inhalation

Acute (Immediate)

 Under normal conditions of use, no health effects are expected. No data available.

Chronic (Delayed)

Skin

Acute (Immediate)

Chronic (Delayed)

May cause mild irritation.

No data available.

Eye

Acute (Immediate)

May cause irritation.

Chronic (Delayed)

Refer to the product insert and/or product prescribing information for comprehensive information regarding adverse reactions and other important symptoms and effects. Under normal conditions of use, no health effects are expected.

Ingestion

Acute (Immediate)

 Not expected to be an exposure route. However, may cause gastric and intestinal irritation if ingested.

Chronic (Delayed)

No data available.

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

Section 12 - Ecological Information

Toxicity

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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 solely of the waste generator.

Packaging waste

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

Other information

No data available

DOT • (49 CFR 172.101, .203) Acetic acid: DOT DESIGNATIONS; Listed chemical. Concentration required for hazardous material classification is a minimum of 10%. Product concentration claim for acetic acid is 2%.

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
Acetic acid	64-19-7	Yes	Yes	Yes
Aluminum sulfate	10043-01-3	Yes	Yes	Yes
Boric acid	10043-35-3	Yes	Yes	Yes
Calcium carbonate	471-34-1	Yes	Yes	Yes
Sodium hydroxide	1310-73-2	Yes	Yes	Yes

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	1			
Water	7732-18-5	Yes	Yes	Yes

Canada

		B3, E (including 10-80% [Available data does not allo a precise evaluation of the
Acetic acid	64-19-7	threshold concentration from which solutions meet the B3 criterion], >80%); D2B (3-10%)
· Aluminum sulfate	10043-01-3	D2B
Sodium hydroxide	1310-73-2	E (including 0.04% in aqueous solution, 0.08%, 0.4% in aqueous solution, 2%, 2.5%,
• Socialii nyaroxide	1310-73-2	4% in aqueous solution, 5%, 10%, 16%, 20%, 40%, 50% aqueous solution, 8.7N)
Boric acid	10043-35-3	D2A
		Uncontrolled product
Calcium carbonate	471-34-1	according to WHMIS classification criteria
• Water	7732-18-5	Uncontrolled product according to WHMIS classification criteria
Canada - WHMIS - Ingredient Disclosure List		
Acetic acid	64-19-7	1 %
Aluminum sulfate	10043-01-3	Not Listed
Sodium hydroxide	1310-73-2	1 %
Boric acid	10043-35-3	1 %
Calcium carbonate	471-34-1	Not Listed
• Water	7732-18-5	Not Listed

Environment

Canada - CEPA - Priority Substances List		
Acetic acid	64-19-7	Not Listed
		Priority Substance List 2
Aluminum sulfate	10043-01-3	(substance not considered
		toxic)
Sodium hydroxide	1310-73-2	Not Listed
Boric acid	10043-35-3	Not Listed
Calcium carbonate	471-34-1	Not Listed
Water	7732-18-5	Not Listed

Europe

- O4l
Other
EU - CLP (1272/2008) - Annex VI - Table 3.2 - (

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification		
Acetic acid	64-19-7	R10 C; R35
Aluminum sulfate	10043-01-3	Not Listed
Sodium hydroxide	1310-73-2	C; R35
Boric acid	10043-35-3	Repr.Cat.2; R60-61
Calcium carbonate	471-34-1	Not Listed

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• Water	7732-18-5	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits		
Acetic acid	64-19-7	10%<=C<25%: Xi; R:36/38 90%<=C: C; R:35 25% <=C<90%: C; R:34
Aluminum sulfate	10043-01-3	Not Listed
Sodium hydroxide	1310-73-2	5%<=C: C; R:35 2%<=C<5%: C; R:34 0.5%<=C<2%: Xi; R:36/38
Boric acid	10043-35-3	5.5%<=C: Repr.Cat.2; R:60-61
Calcium carbonate	471-34-1	Not Listed
• Water	7732-18-5	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling		
Acetic acid	64-19-7	C R:10-35 S:(1/2)-23-26-45
Aluminum sulfate	10043-01-3	Not Listed
Sodium hydroxide	1310-73-2	C R:35 S:(1/2)-26-37/39-45
Boric acid	10043-35-3	T R:60-61 S:53-45
Calcium carbonate	471-34-1	Not Listed
Water	7732-18-5	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Prepar	rations	
Acetic acid	64-19-7	В
Aluminum sulfate	10043-01-3	Not Listed
Sodium hydroxide	1310-73-2	Not Listed
Boric acid	10043-35-3	Not Listed
Calcium carbonate	471-34-1	Not Listed
Water	7732-18-5	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases		
Acetic acid	64-19-7	S:(1/2)-23-26-45
Aluminum sulfate	10043-01-3	Not Listed
Sodium hydroxide	1310-73-2	S:(1/2)-26-37/39-45
Boric acid	10043-35-3	S:53-45
Calcium carbonate	471-34-1	Not Listed
Water	7732-18-5	Not Listed

United States

Environment U.S CERCLA/SARA - Hazardous Substances and their Reportable Quant	ities	
Acetic acid	64-19-7	5000 lb final RQ; 2270 kg final RQ
Aluminum sulfate	10043-01-3	5000 lb final RQ; 2270 kg final RQ
Sodium hydroxide	1310-73-2	1000 lb final RQ; 454 kg final RQ
Boric acid	10043-35-3	Not Listed
Calcium carbonate	471-34-1	Not Listed
• Water	7732-18-5	Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

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Acetic acid	64-19-7	Not Listed	
Aluminum sulfate	10043-01-3	Not Listed	
Sodium hydroxide	1310-73-2	Not Listed	
Boric acid	10043-35-3	Not Listed	
Calcium carbonate	471-34-1	Not Listed	
• Water	7732-18-5	Not Listed	
U.S California - Proposition 65 - Developmental Toxicity			
Acetic acid	64-19-7	Not Listed	
Aluminum sulfate	10043-01-3	Not Listed	
Sodium hydroxide	1310-73-2	Not Listed	
Boric acid	10043-35-3	Not Listed	
Calcium carbonate	471-34-1	Not Listed	
• Water	7732-18-5	Not Listed	
U.S California - Proposition 65 - Reproductive Toxicity - Female			
Acetic acid	64-19-7	Not Listed	
Aluminum sulfate	10043-01-3	Not Listed	
Sodium hydroxide	1310-73-2	Not Listed	
Boric acid	10043-35-3	Not Listed	
Calcium carbonate	471-34-1	Not Listed	
• Water	7732-18-5	Not Listed	
U.S California - Proposition 65 - Reproductive Toxicity - Male			
Acetic acid	64-19-7	Not Listed	
Aluminum sulfate	10043-01-3	Not Listed	
Sodium hydroxide	1310-73-2	Not Listed	
Boric acid	10043-35-3	Not Listed	
Calcium carbonate	471-34-1	Not Listed	
• Water	7732-18-5	Not Listed	

Section 16 - Other Information

Last Revision Date Preparation Date Disclaimer/Statement of Liability

- 15/May/2015
- 14/May/2015
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