

Safety Data Sheet

Section 1: Identification

Product identifier

Product Name • **Boston ADVANCE® Cleaner**

Synonyms • Cleaner 95

Product Code • 625421; 7420

Product Description • Contact lens cleaner.

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

Recommended use • Rigid gas permeable contact lens cleaner

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 • Skin Mild Irritation 3
Eye Irritation 2
Carcinogenicity 2

Label elements

UN GHS

WARNING



Hazard statements • Causes serious eye irritation
Causes mild skin irritation
While the finished product is believed to be safe, some ingredients are suspected of

causing cancer.

Precautionary statements

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

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

Storage/Disposal ● Store at 15-25°C (59-77°F)..
Keep tightly closed and store in upright position.

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
Cedepal TD-403	CAS:25446-78-0 EINECS:246-985-2	< 30%	UN GHS: not classified
Makon OP-9	CAS:68987-90-6	< 1%	UN GHS: not classified
Phospholipid PTC	CAS:83682-78-4 EINECS:280-518-3	< 1%	UN GHS: not classified
Purified water	CAS:7732-18-5 EINECS:231-791-2	> 60%	UN GHS: not classified
Sodium chloride	CAS:7647-14-5 EINECS:231-598-3	< 10%	UN GHS: Skin Irrit. 2; Eye Irrit. 2A; Acute Tox. Oral 5
Sodium phosphate heptahydrate	CAS:7558-79-4 EINECS:231-448-7	< 1%	UN GHS: Skin Irrit. 2; Eye Irrit. 2A
Syloid 244		< 5%	UN GHS: not classified
Titanium dioxide	CAS:13463-67-7 EINECS:236-675-5	< 1%	UN GHS: STOT RE 2; Carc. 2

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. Get medical attention if symptoms occur.

Skin

- IF ON SKIN: Wash with plenty of soap and water. 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. Get medical attention immediately.
- Ingestion**
- Call a physician or 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

Section 5: Fire-Fighting Measures

Extinguishing media

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

- 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 15-25°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 / guidelines for the individual product components.

Exposure Limits/Guidelines				
	Result	ACGIH	Canada Quebec	OSHA
Titanium dioxide (13463-67-7)	TWAs	10 mg/m3 TWA	10 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica, total dust)	15 mg/m3 TWA (total dust)
Syloid 244 (63231-67-4)	TWAs	Not established	6 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica, respirable dust)	Not established

Exposure Control Notations

ACGIH

- Titanium dioxide (13463-67-7): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

Exposure Limits Supplemental

ACGIH

- Titanium dioxide (13463-67-7): **TLV Basis - Critical Effects:** (lower respiratory tract irritation)

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

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

Hands

- Wear protective gloves .

Skin/Body

- 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	White
Odor	No odor.		
General Properties			
Boiling Point	Not relevant	Melting Point	Not relevant
Decomposition Temperature	Not relevant	pH	7 to 9
Specific Gravity/Relative Density	1 to 1.15	Water Solubility	Not relevant
Viscosity	No data available		
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 (< 10%)	7647-14-5	Acute Toxicity: Ingestion/Oral-Rat LD50 • 3000 mg/kg; Ingestion/Oral-Rat TDLo • 1 mg/kg 24 Hour(s); <i>Biochemical:Metabolism (intermediary):Effect on Na-K pump</i>
Sodium phosphate heptahydrate (< 1%)	7558-79-4	Acute Toxicity: Ingestion/Oral-Rat LD50 • 17000 mg/kg; Irritation: Eye-Rabbit • 500 mg 24 Hour(s) • Mild irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation
Titanium dioxide (< 1%)	13463-67-7	Irritation: Skin-Human • 300 µg 3 Day(s)-Intermittent • Mild irritation

GHS Properties	Classification
Acute toxicity	UN GHS • Acute Toxicity - Classification criteria not met
Aspiration Hazard	UN GHS • Classification criteria not met
Carcinogenicity	UN GHS • Carcinogenicity 2
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 Irritation 2

Potential Health Effects

Inhalation

- Acute (Immediate)**
 - Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)**
 - Under normal conditions of use, no health effects are expected.

Skin

- Acute (Immediate)**
 - May cause mild irritation.
- Chronic (Delayed)**
 - Causes mild skin irritation.

Eye

- Acute (Immediate)**
 - Causes serious eye irritation.
- Chronic (Delayed)**
 - No data available.

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

- While the finished product is believed to be safe, an ingredient in the product is suspected of causing cancer.

Carcinogenic Effects			
	CAS	IARC	NTP
Titanium dioxide	13463-67-7	Group 2B-Possible Carcinogen	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 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
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
Phospholipid PTC	83682-78-4	Yes	Yes	Yes
Cedepal TD-403	25446-78-0	Yes	Yes	Yes
Makon OP-9	68987-90-6	Yes	No	Yes
Syloid 244	63231-67-4	Yes	No	Yes
Sodium chloride	7647-14-5	Yes	Yes	Yes
Sodium phosphate heptahydrate	7558-79-4	Yes	Yes	Yes
Titanium dioxide	13463-67-7	Yes	Yes	Yes
Purified water	7732-18-5	Yes	Yes	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Makon OP-9	68987-90-6	Not Listed
• Syloid 244	63231-67-4	Uncontrolled product according to WHMIS classification criteria D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Titanium dioxide, mixture containing on Health Canada's WHMIS Division website.)
• Titanium dioxide	13463-67-7	Not Listed
• Titanium dioxide as Titanium compounds		Not Listed

• Sodium phosphate heptahydrate	7558-79-4	Not Listed
• Sodium chloride	7647-14-5	Uncontrolled product according to WHMIS classification criteria
• Phospholipid PTC	83682-78-4	Not Listed
• Purified water	7732-18-5	Uncontrolled product according to WHMIS classification criteria
• Cedepal TD-403	25446-78-0	Not Listed

Canada - WHMIS - Ingredient Disclosure List

• Makon OP-9	68987-90-6	Not Listed
• Syloid 244	63231-67-4	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Titanium dioxide as Titanium compounds		Not Listed
• Sodium phosphate heptahydrate	7558-79-4	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Phospholipid PTC	83682-78-4	Not Listed
• Purified water	7732-18-5	Not Listed
• Cedepal TD-403	25446-78-0	Not Listed

Europe

Other

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

• Makon OP-9	68987-90-6	Not Listed
• Syloid 244	63231-67-4	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Titanium dioxide as Titanium compounds		Not Listed
• Sodium phosphate heptahydrate	7558-79-4	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Phospholipid PTC	83682-78-4	Not Listed
• Purified water	7732-18-5	Not Listed
• Cedepal TD-403	25446-78-0	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

• Makon OP-9	68987-90-6	Not Listed
• Syloid 244	63231-67-4	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Titanium dioxide as Titanium compounds		Not Listed
• Sodium phosphate heptahydrate	7558-79-4	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Phospholipid PTC	83682-78-4	Not Listed
• Purified water	7732-18-5	Not Listed
• Cedepal TD-403	25446-78-0	Not Listed

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

• Makon OP-9	68987-90-6	Not Listed
• Syloid 244	63231-67-4	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Titanium dioxide as Titanium compounds		Not Listed
• Sodium phosphate heptahydrate	7558-79-4	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Phospholipid PTC	83682-78-4	Not Listed
• Purified water	7732-18-5	Not Listed

• Cedepal TD-403	25446-78-0	Not Listed
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EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

• Makon OP-9	68987-90-6	Not Listed
• Syloid 244	63231-67-4	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Titanium dioxide as Titanium compounds		Not Listed
• Sodium phosphate heptahydrate	7558-79-4	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Phospholipid PTC	83682-78-4	Not Listed
• Purified water	7732-18-5	Not Listed
• Cedepal TD-403	25446-78-0	Not Listed

United States**Environment****U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

• Makon OP-9	68987-90-6	Not Listed
• Syloid 244	63231-67-4	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Titanium dioxide as Titanium compounds		Not Listed
• Sodium phosphate heptahydrate	7558-79-4	5000 lb final RQ; 2270 kg final RQ
• Sodium chloride	7647-14-5	Not Listed
• Phospholipid PTC	83682-78-4	Not Listed
• Purified water	7732-18-5	Not Listed
• Cedepal TD-403	25446-78-0	Not Listed

United States - California**Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Makon OP-9	68987-90-6	Not Listed
• Syloid 244	63231-67-4	Not Listed
• Titanium dioxide	13463-67-7	carcinogen, initial date 9/2/11 (airborne, unbound particles of respirable size)
• Titanium dioxide as Titanium compounds		Not Listed
• Sodium phosphate heptahydrate	7558-79-4	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Phospholipid PTC	83682-78-4	Not Listed
• Purified water	7732-18-5	Not Listed
• Cedepal TD-403	25446-78-0	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• Makon OP-9	68987-90-6	Not Listed
• Syloid 244	63231-67-4	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Titanium dioxide as Titanium compounds		Not Listed
• Sodium phosphate heptahydrate	7558-79-4	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Phospholipid PTC	83682-78-4	Not Listed
• Purified water	7732-18-5	Not Listed
• Cedepal TD-403	25446-78-0	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Makon OP-9	68987-90-6	Not Listed
• Syloid 244	63231-67-4	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Titanium dioxide as Titanium compounds		Not Listed
• Sodium phosphate heptahydrate	7558-79-4	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Phospholipid PTC	83682-78-4	Not Listed
• Purified water	7732-18-5	Not Listed
• Cedepal TD-403	25446-78-0	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• Makon OP-9	68987-90-6	Not Listed
• Syloid 244	63231-67-4	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Titanium dioxide as Titanium compounds		Not Listed
• Sodium phosphate heptahydrate	7558-79-4	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Phospholipid PTC	83682-78-4	Not Listed
• Purified water	7732-18-5	Not Listed
• Cedepal TD-403	25446-78-0	Not Listed

Section 16 - Other Information**Last Revision Date**

- 09/February/2015

Preparation Date

- 09/February/2015

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