

Safety Data Sheet**Section 1: Identification****Product identifier**

- Product Name** • **Fog Shield® XP**
- Product Code** • 77; 8577; 8577PMT; FCP-4261
- Product Description** • Dilute solvent and surfactant solution.

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

- Recommended use** • This product is intended to be used as a cleaning agent for a variety of safety equipment and tools, including eyewear, face shields, respirators, etc.
- Restrictions on use** • Use in accordance with product literature.

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

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** • Eye Irritation 2A
Flammable Liquids 3

Label elements

UN GHS

WARNING

- Hazard statements** • Flammable liquid and vapour
Causes serious eye irritation

Precautionary statements

- Prevention** • Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.

Use only in accordance with label instructions and package insert.

NOT FOR USE ON CONTACT LENSES

- 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.
In case of fire, use carbon dioxide, dry chemical powder, appropriate foam or water fog extinguishing media.

- Storage/Disposal •** Store in a well-ventilated place. Keep cool.
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Other hazards

UN GHS

- No data available

Other information

- If you are sensitive to any of the product components, do not use.

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
Water	CAS:7732-18-5 EINECS:231-791-2	> 80%	UN GHS: Classification criteria not met
Silicone	CAS:67674-67-3	< 5%	UN GHS: Classification criteria not met
Silicone polyether copolymer	CAS:68937-55-3	< 1%	UN GHS: Classification criteria not met
2-Ethylhexyl sodium sulfate solution	CAS:126-92-1 EINECS:204-812-8	< 0.1%	UN GHS: Classification criteria not met
Isopropyl alcohol	CAS:67-63-0 EINECS:200-661-7	11%	UN GHS: Eye Irrit. 2A
Poly(oxyethylene) (oxypropylene)-monoallyl ether	CAS:9041-33-2	< 1%	UN GHS: Classification criteria not met
2-Ethylhexanol	CAS:104-76-7 EINECS:203-234-3	< 0.1%	UN GHS: Skin Irrit. 2; Eye Irrit. 2A; Acute Tox. Dermal 4; Flam. Liq. 4; Aquatic Acute 3
Sodium sulfate	CAS:7757-82-6 EINECS:231-820-9	< 0.1%	UN GHS: Classification criteria not met
Polyethylene glycol	CAS:25322-68-3	< 1%	UN GHS: Skin Irrit. 3; Eye Irrit. 2B; Acute Tox. Oral 4

Section 4: First-Aid Measures

Description of first aid measures

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| Inhalation | <ul style="list-style-type: none"> Normal use of this product does not pose an inhalation hazard. However, should respiratory tract irritation develop, discontinue use and remove to fresh air. Get medical attention if irritation or other symptoms develop or persist. |
| Skin | <ul style="list-style-type: none"> Should irritation develop, discontinue use. Wash affected skin thoroughly with soap and water. Get medical attention if irritation or other symptoms develop or persist. |
| Eye | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> If swallowed, DO NOT induce vomiting. 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

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| Notes to Physician | <ul style="list-style-type: none"> Material if ingested may be aspirated into the lungs and can cause chemical pneumonitis. Treat appropriately. |
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Section 5: Fire-Fighting Measures

Extinguishing media

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| Suitable Extinguishing Media | <ul style="list-style-type: none"> SMALL FIRES: Dry chemical, CO₂, water spray or regular foam. LARGE FIRE: Water spray, fog or regular foam. |
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| Unsuitable Extinguishing Media | <ul style="list-style-type: none"> No data available |
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Special hazards arising from the substance or mixture

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| Unusual Fire and Explosion Hazards | <ul style="list-style-type: none"> No data available |
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| Hazardous Combustion Products | <ul style="list-style-type: none"> During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. |
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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

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| Personal Precautions | <ul style="list-style-type: none"> 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. |
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- | | |
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| Emergency Procedures | <ul style="list-style-type: none"> No emergency procedures are expected to be necessary when used in accordance with product literature. For bulk material spills, keep unauthorized personnel away. Isolate spill area and stop source of release if safe to do so. Ensure adequate ventilation. |
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Environmental precautions

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

Methods and material for containment and cleaning up

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| Containment/Clean-up Measures | <ul style="list-style-type: none"> For bulk material spills: 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 |
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material in an appropriate, liquid-tight container equipped with a tight cover for disposal.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

- Avoid contact with eyes. Avoid prolonged or repeated exposure to skin or mucous membranes, and breathing mists/vapors. Use in a well ventilated area, away from all sources of ignition. Keep container closed. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities

Storage

- Store product at room temperature, in a well ventilated area away from heat, sparks or flames. Discard appropriately if package integrity is compromised.

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
Isopropyl alcohol (67-63-0)	STELs	400 ppm STEL	500 ppm STEV; 1230 mg/m3 STEV	500 ppm STEL; 1225 mg/m3 STEL	Not established
	TWAs	200 ppm TWA	400 ppm TWAEV; 985 mg/m3 TWAEV	400 ppm TWA; 980 mg/m3 TWA	400 ppm TWA; 980 mg/m3 TWA

Exposure Control Notations

ACGIH

- Isopropyl alcohol (67-63-0): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

Exposure controls

Engineering

Measures/Controls

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

Personal Protective Equipment

Respiratory

- 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 with 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/face protection should be worn.

Hands

- No special personal protection required under conditions of intended use. In the event of a bulk spill, protective rubber gloves should be worn.

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 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	Not relevant
Odor	Mild alcohol odor.	Odor Threshold	Not relevant
General Properties			
Boiling Point	No data available	Melting Point/Freezing Point	Not relevant
Decomposition Temperature	Not relevant	pH	5 to 9
Specific Gravity/Relative Density	= 0.987 Water=1	Water Solubility	Soluble in water
Viscosity	Not relevant		
Volatility			
Vapor Pressure	Not relevant	Vapor Density	Not relevant
Evaporation Rate	Not relevant		
Flammability			
Flash Point	42.2 C(107.96 F)	UEL	Not relevant
LEL	Not relevant	Autoignition	Not relevant
Flammability (solid, gas)	Not relevant		
Environmental			
Octanol/Water Partition coefficient	Not relevant		

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

- Heat, sources of ignition.

Incompatible materials

- No data available

Hazardous decomposition products

- During a fire, thermal decomposition or combustion may generate irritating and highly toxic gases.

Section 11 - Toxicological Information

Information on toxicological effects

Components		
Water (> 80%)	7732-18-5	Acute Toxicity: Ingestion/Oral-Rat LD50 • >90 mL/kg
2-Ethylhexyl sodium sulfate solution (< 0.1%)	126-92-1	Acute Toxicity: Ingestion/Oral-Mouse LD50 • 1550 mg/kg; Ingestion/Oral-Rat LD50 • 4 g/kg; Irritation: Eye-Rabbit • 250 µg • Mild irritation
Isopropyl alcohol (11%)	67-63-0	Acute Toxicity: Ingestion/Oral-Rat LD50 • 5000 mg/kg; Behavioral: General anesthetic; Inhalation-Human TCLo • 35 ppm 4 Hour(s); Cardiac: Pulse rate; Lungs, Thorax, or Respiration: Other changes;

		Irritation: Skin-Rabbit • 500 mg • Mild irritation
2-Ethylhexanol (< 0.1%)	104-76-7	Acute Toxicity: Ingestion/Oral-Rat LD50 • 3730 mg/kg; Skin-Rabbit LD50 • 1970 mg/kg; Irritation: Eye-Rabbit • 20 mg • Severe irritation; Skin-Rabbit • 0.5 mL • Severe irritation
Sodium sulfate (< 0.1%)	7757-82-6	Acute Toxicity: Ingestion/Oral-Mouse LD50 • 5989 mg/kg; Reproductive: Ingestion/Oral-Mouse TDLo • 14 g/kg (8-12D preg); <i>Reproductive Effects: Effects on Newborn: Other neonatal measures or effects.</i> ; Tumorigen / Carcinogen: Subcutaneous-Mouse TDLo • 806 mg/kg 26 Week(s)-Intermittent; <i>Tumorigenic: Equivocal tumorigenic agent by RTECS criteria; Skin and Appendages: Other: Tumors</i>
Polyethylene glycol (< 1%)	25322-68-3	Acute Toxicity: Ingestion/Oral-Rat LD50 • 1054 mg/kg; Skin-Rabbit LD50 • >20 g/kg; Irritation: Eye-Rabbit • 500 mg • Mild irritation; Skin-Rabbit • 500 mg-Open • Mild irritation; Reproductive: Ingestion/Oral-Rabbit TDLo • 130 mg/kg (6-18D preg); <i>Reproductive Effects: Maternal Effects: Other effects.</i> ; Tumorigen / Carcinogen: Intravaginal-Mouse TDLo • 416 mg/kg 1 Year(s)-Intermittent; <i>Tumorigenic: Equivocal tumorigenic agent by RTECS criteria; Reproductive Effects: Tumorigenic Effects: Other reproductive system tumors</i>

GHS Properties	Classification
Respiratory sensitization	UN GHS • Classification criteria not met
Serious eye damage/Irritation	UN GHS • Eye Irritation 2A
Acute toxicity	UN GHS • Classification criteria not met
Aspiration Hazard	UN GHS • Classification criteria not met
Carcinogenicity	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
Germ Cell Mutagenicity	UN GHS • Classification criteria not met

Potential Health Effects

Inhalation

- Acute (Immediate)**
 - Unlikely to be hazardous when used as directed. However, if actively concentrated and inhaled, it may cause respiratory tract irritation.
- Chronic (Delayed)**
 - No data available

Skin

- Acute (Immediate)**
 - Frequent or prolonged contact with skin or mucous membranes may cause irritation.
- Chronic (Delayed)**
 - No data available

Eye

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

Ingestion

- Acute (Immediate)**
 - May cause irritation if swallowed.
- Chronic (Delayed)**
 - No data available

Carcinogenic Effects		
	CAS	IARC
Isopropyl alcohol	67-63-0	Group 3-Not Classifiable

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	ID8000	Consumer commodity	9	III	NDA
TDG	UN1987	Alcohols, n.o.s. (Isopropanol)	3	III	NDA
IMO/IMDG	UN1987	Alcohols, n.o.s. (Isopropanol)	3	III	NDA
IATA/ICAO	ID8000	Consumer commodity	9	III	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

Other information

- Product code #8577PMT is not regulated. DOT Special Provision 47; IMO/IMDG, Special Provision 216; IATA, Special Provision 46.

TDG • Ship as Limited Quantity.

IMO/IMDG • Ship as Limited Quantity.

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute

Inventory				
Component	CAS	Canada DSL	EU EINECS	TSCA
2-Ethylhexyl sodium sulfate solution	126-92-1	Yes	Yes	Yes
2-Ethylhexanol	104-76-7	Yes	Yes	Yes
Silicone polyether copolymer	68937-55-3	Yes	No	Yes
Isopropyl alcohol	67-63-0	Yes	Yes	Yes
Poly(oxyethylene) (oxypropylene)-monoallyl ether	9041-33-2	Yes	No	Yes
Silicone	67674-67-3	Yes	No	Yes
Polyethylene glycol	25322-68-3	Yes	No	Yes
Sodium sulfate	7757-82-6	Yes	Yes	Yes
Water	7732-18-5	Yes	Yes	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

• 2-Ethylhexyl sodium sulfate solution	126-92-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Isopropyl alcohol	67-63-0	B2, D2B (including 70%) Uncontrolled product according to WHMIS classification criteria
• Sodium sulfate	7757-82-6	
• 2-Ethylhexanol	104-76-7	B3, D2B
• Silicone	67674-67-3	Not Listed
• Silicone polyether copolymer	68937-55-3	Not Listed
• Poly(oxyethylene) (oxypropylene)-monoallyl ether	9041-33-2	Not Listed
• Water	7732-18-5	Uncontrolled product according to WHMIS classification criteria

Canada - WHMIS - Ingredient Disclosure List

• 2-Ethylhexyl sodium sulfate solution	126-92-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Isopropyl alcohol	67-63-0	1 %
• Sodium sulfate	7757-82-6	Not Listed
• 2-Ethylhexanol	104-76-7	1 %
• Silicone	67674-67-3	Not Listed
• Silicone polyether copolymer	68937-55-3	Not Listed
• Poly(oxyethylene) (oxypropylene)-monoallyl ether	9041-33-2	Not Listed
• Water	7732-18-5	Not Listed

Europe

Other

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

• 2-Ethylhexyl sodium sulfate solution	126-92-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Isopropyl alcohol	67-63-0	F; R11 Xi; R36 R67
• Sodium sulfate	7757-82-6	Not Listed

• 2-Ethylhexanol	104-76-7	Not Listed
• Silicone	67674-67-3	Not Listed
• Silicone polyether copolymer	68937-55-3	Not Listed
• Poly(oxyethylene) (oxypropylene)-monoallyl ether	9041-33-2	Not Listed
• Water	7732-18-5	Not Listed

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

• 2-Ethylhexyl sodium sulfate solution	126-92-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Isopropyl alcohol	67-63-0	F Xi R:11-36-67 S:(2)-7-16-24/25-26
• Sodium sulfate	7757-82-6	Not Listed
• 2-Ethylhexanol	104-76-7	Not Listed
• Silicone	67674-67-3	Not Listed
• Silicone polyether copolymer	68937-55-3	Not Listed
• Poly(oxyethylene) (oxypropylene)-monoallyl ether	9041-33-2	Not Listed
• Water	7732-18-5	Not Listed

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

• 2-Ethylhexyl sodium sulfate solution	126-92-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Isopropyl alcohol	67-63-0	S:(2)-7-16-24/25-26
• Sodium sulfate	7757-82-6	Not Listed
• 2-Ethylhexanol	104-76-7	Not Listed
• Silicone	67674-67-3	Not Listed
• Silicone polyether copolymer	68937-55-3	Not Listed
• Poly(oxyethylene) (oxypropylene)-monoallyl ether	9041-33-2	Not Listed
• Water	7732-18-5	Not Listed

United States**Environment****U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

• 2-Ethylhexyl sodium sulfate solution	126-92-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Isopropyl alcohol	67-63-0	1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)
• Sodium sulfate	7757-82-6	Not Listed
• 2-Ethylhexanol	104-76-7	Not Listed
• Silicone	67674-67-3	Not Listed
• Silicone polyether copolymer	68937-55-3	Not Listed
• Poly(oxyethylene) (oxypropylene)-monoallyl ether	9041-33-2	Not Listed
• Water	7732-18-5	Not Listed

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

• 2-Ethylhexyl sodium sulfate solution	126-92-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed
• Sodium sulfate	7757-82-6	Not Listed

• 2-Ethylhexanol	104-76-7	Not Listed
• Silicone	67674-67-3	Not Listed
• Silicone polyether copolymer	68937-55-3	Not Listed
• Poly(oxyethylene) (oxypropylene)-monoallyl ether	9041-33-2	Not Listed
• Water	7732-18-5	Not Listed

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

• 2-Ethylhexyl sodium sulfate solution	126-92-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed
• Sodium sulfate	7757-82-6	Not Listed
• 2-Ethylhexanol	104-76-7	Not Listed
• Silicone	67674-67-3	Not Listed
• Silicone polyether copolymer	68937-55-3	Not Listed
• Poly(oxyethylene) (oxypropylene)-monoallyl ether	9041-33-2	Not Listed
• Water	7732-18-5	Not Listed

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

• 2-Ethylhexyl sodium sulfate solution	126-92-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed
• Sodium sulfate	7757-82-6	Not Listed
• 2-Ethylhexanol	104-76-7	Not Listed
• Silicone	67674-67-3	Not Listed
• Silicone polyether copolymer	68937-55-3	Not Listed
• Poly(oxyethylene) (oxypropylene)-monoallyl ether	9041-33-2	Not Listed
• Water	7732-18-5	Not Listed

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

• 2-Ethylhexyl sodium sulfate solution	126-92-1	Not Listed
• Polyethylene glycol	25322-68-3	Not Listed
• Isopropyl alcohol	67-63-0	Not Listed
• Sodium sulfate	7757-82-6	Not Listed
• 2-Ethylhexanol	104-76-7	Not Listed
• Silicone	67674-67-3	Not Listed
• Silicone polyether copolymer	68937-55-3	Not Listed
• Poly(oxyethylene) (oxypropylene)-monoallyl ether	9041-33-2	Not Listed
• Water	7732-18-5	Not Listed

Section 16 - Other Information

Revision Date	• 11/September/2015
Last Revision Date	• 28/April/2015
Preparation Date	• 15/October/2012
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