

MATERIAL SAFETY DATA SHEET

DRAFT VERSION

1. Product and Company Identification

Material name Fogbuster
Version # 00
Revision date 08-23-2009
Product Code 344060999, 344062999, 344063999
Product use Anti-Fog Lens Treatment System
Manufacturer information Hilco
33W. Bacon St. Plainville, Ma 02762
Telephone number 508-699-4406
Contact Person: Mike Lennox
Emergency 1-800-535-5053

2. Hazards Identification

Physical state Solid.
Appearance Liquid saturated paper towelette
Emergency overview WARNING
Combustible. Causes eye irritation. Prolonged or repeated contact may dry skin and cause irritation. Prolonged exposure may cause chronic effects.
OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure Inhalation. Skin contact. Eye contact.
Eyes Causes eye irritation.
Skin Prolonged or repeated contact may dry skin and cause irritation.
Inhalation Vapors may cause drowsiness and dizziness.
Ingestion Health injuries are not known or expected under normal use. However, ingestion may cause irritation and malaise.

Target organs Eyes. Skin. Central nervous system.

Chronic effects Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May cause central nervous system effects.

Signs and symptoms Irritation of eyes and mucous membranes. Corneal damage. Defatting of the skin. Skin irritation. Drowsiness and dizziness.

Potential environmental effects The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Water	7732-18-5	60 - 85
Isopropyl alcohol	67-63-0	10 - 20
Proprietary	N/A	4 - 10
Proprietary	N/A	< 5
Proprietary	N/A	< 5

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.

Skin contact	Wash off with soap and water. If irritation persists get medical attention.
Inhalation	Move to fresh air. Get medical attention, if needed.
Ingestion	Rinse mouth thoroughly. If ingestion of a large amount does occur, call a poison control center immediately.
Notes to physician	In case of shortness of breath, give oxygen. Symptoms may be delayed.
General advice	In case of shortness of breath, give oxygen. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties	Combustible. During fire, gases hazardous to health may be formed. Solvent vapors may form explosive mixtures with air.
Extinguishing media	
Suitable extinguishing media	Water. Foam. Dry powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Protection of firefighters	
Specific hazards arising from the chemical	Fire may produce irritating, corrosive and/or toxic gases.
Protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires.
Special protective equipment for fire-fighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.
Specific methods	Use water spray to cool unopened containers.

6. Accidental Release Measures

Personal precautions	Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering. Wear suitable protective clothing. Avoid inhalation of vapors and contact with skin and eyes. Local authorities should be advised if significant spillages cannot be contained.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground unless authorized by permit.
Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Prevent entry into waterways, sewer, basements or confined areas.
Methods for cleaning up	Collect with absorbent, non-combustible material into suitable containers. Clean surface thoroughly to remove residual contamination. Should not be released into the environment.
Other information	Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling	Keep away from sources of ignition - No smoking. Avoid inhalation of vapors/spray and contact with skin and eyes. Avoid prolonged exposure. Use only with adequate ventilation.
Storage	Store in a well-ventilated place. Keep container tightly closed. Protect from freezing and direct sunlight. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

Components	Type	Value
Isopropyl alcohol (67-63-0)	STEL	400 ppm
	TWA	200 ppm

U.S. - OSHA

Components	Type	Value
Isopropyl alcohol (67-63-0)	PEL	400 ppm
		980 mg/m3
	STEL	1225 mg/m3
		500 ppm
	TWA	400 ppm

Components	Type	Value
		980 mg/m3
Canada - Alberta		
Components	Type	Value
Isopropyl alcohol (67-63-0)	STEL	1230 mg/m3 500 ppm
	TWA	983 mg/m3 400 ppm
Canada - British Columbia		
Components	Type	Value
Isopropyl alcohol (67-63-0)	STEL	400 ppm
	TWA	200 ppm
Canada - Ontario		
Components	Type	Value
Isopropyl alcohol (67-63-0)	STEL	400 ppm
	TWA	200 ppm
Canada - Quebec		
Components	Type	Value
Isopropyl alcohol (67-63-0)	STEL	1230 mg/m3 500 ppm
	TWA	983 mg/m3 400 ppm
Mexico		
Components	Type	Value
Isopropyl alcohol (67-63-0)	STEL	1225 mg/m3 500 ppm
	TWA	980 mg/m3 400 ppm

Engineering controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
Personal protective equipment	
Eye / face protection	Wear safety glasses with side shields (or goggles).
Skin protection	Wear protective gloves.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General hygiene considerations	Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance	Liquid saturated paper towelette
Color	White.
Odor	Sweet. Slight alcohol
Odor threshold	Not available.
Physical state	Solid.
Form	Paper towelette
pH	6 Approx.
Melting point	Not available.
Freezing point	Not available.

Boiling point	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity	Not available.
Solubility (water)	Not miscible.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Heat, flames and sparks. High temperatures. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Acids.
Hazardous decomposition products	CO. CO2.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Components

Test Results

Isopropyl alcohol (67-63-0)

Acute Dermal LD50 Rabbit: 5030 - 7900 mg/kg
Acute Oral LD50 Rat: 4700 - 5800 mg/kg

Local effects

Causes eye irritation. Prolonged or repeated skin contact may cause irritation.

Sensitization

Not available.

Chronic effects

Contains organic solvents which in case of overexposure may depress the central nervous system causing dizziness and intoxication.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

ACGIH Carcinogens

Isopropyl alcohol (CAS 67-63-0)

Group A4 Not classifiable as a human carcinogen.

Mutagenicity

Not available.

Neurological effects

Not available.

Reproductive effects

Not available.

Teratogenicity

Not available.

12. Ecological Information

Ecotoxicological data

Components

Test Results

Isopropyl alcohol (67-63-0)

LC50 Bluegill (*Lepomis macrochirus*): > 1400 mg/l 96 Hours

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Environmental effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence and degradability

Not available.

Bioaccumulation / Accumulation

No data available.

Mobility in environmental media No data available.

13. Disposal Considerations

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

TDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Isopropyl alcohol (CAS 67-63-0) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Isopropyl alcohol (CAS 67-63-0) Listed.

CERCLA (Superfund) reportable quantity (lbs)

Isopropyl alcohol: 100

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Drug Enforcement Agency (DEA) Not controlled

WHMIS status Controlled

WHMIS classification B3 - Flammable/Combustible
D2B - Other Toxic Effects-TOXIC

WHMIS labeling



Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - California Hazardous Substances (Director's): Listed substance

Isopropyl alcohol (CAS 67-63-0) Listed.

US - Massachusetts RTK - Substance: Listed substance

Isopropyl alcohol (CAS 67-63-0) Listed.

US - New Jersey Community RTK (EHS Survey): Reportable threshold

Isopropyl alcohol (CAS 67-63-0) 500 LBS

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Isopropyl alcohol (CAS 67-63-0) Listed.

16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings Health: 2*
Flammability: 2
Physical hazard: 0

NFPA ratings Health: 2
Flammability: 2
Instability: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience currently available.

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