



Health	1
Flammability	0
Physical Hazard	0
Personal Protection	B

Safety Data Sheet

Atmospheres HQ Light Enhancement Fluid

Effective Date: December 1st 2015

Section 1: Chemical Product and Company Identification

Product Name: "Atmospheres" HQ Light Enhancement Fluid

("Stage" and "Coldflow" formulas contain different percentages of the CAS#'s and a higher percentage of water)

Chemical Name: Food grade or high purity grade propylene glycol, triethylene glycol and de-ionized water

Product Usage: Fog Fluid

Contact Information:

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Section 2: Hazards Identification

OSHA Hazards: No Known OSHA Hazards

Target Organs: None Known

Signal Words: Warning

Pictograms: None

GHS Classification:
 Skin irritation Category 3
 Eye irritation Category 2B

GHS Label Elements:

Hazard Statements:

H316 Causes mild skin irritation
 H320 Causes eye irritation
 H335 May cause respiratory irritation

Precautionary Statements:

P305, P351, P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing.

Potential Acute Health Effects:

INGESTION: No evidence of adverse effect for low dose. May cause nausea and vomiting in higher dosage.

INHALATION: No evidence of adverse effects from exposure to recommended levels. Should continuous exposure to high concentrations of fog be required professionally (i.e. fire training), a canister type particle mask designed for 10 to 20 micron filtration should be used.

SKIN CONTACT: May cause minimal irritation of areas exposed to liquid.

EYE CONTACT: If splashed in eyes, may cause minimal irritation seen as slight excess redness of the conjunctiva.

Potential Chronic Health Effects:

Slightly hazardous in case of skin contact (sensitizer). No other reported by the manufacturer.

Medical Conditions Aggravated by Overexposure:

A knowledge of the available toxicology information and of the physical and chemical properties of the material suggests that overexposure is unlikely to aggravate existing medical conditions.

Section 3: Composition and Information on Ingredients

Ingredient	CAS #	% (Weight)	ACGIH TLV		OSHA PEL	
			TWA	STEL	PEL	STEL
Triethylene Glycol	112-27-6	Not Available	Not Available	Not Available	Not Available	Not Available
Propylene Glycol	57-55-6	Not Available	10 mg/m ³	Not Available	50 ppm (total) 10 mg/m ³ (aerosol)	Not Available
Deionized Water	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

*This product is a mixture of very low toxicity ingredients which are of high purity or food grade.
According to OSHA this product is non-hazardous under (1910.1200). The largest single component of this product is de-ionized water.*

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention if symptoms persist.

Skin Contact:

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if symptoms persist.

Inhalation:

No problems from inhalation are anticipated. If adverse effects appear, remove to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Notes to Physician:

Treatment of overexposure should be directed at the control of symptoms and the clinical condition.

Section 5: Fire and Explosion Data

Flammability of the Product: Not flammable under normal conditions.

Auto-Ignition Temperature: Not determined

Flash Points: Not determined

Flammable Limits: LOWER: Not available UPPER: Not available

Products of Combustion: Carbon Oxides (CO, CO₂).

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not expected.

Risks of explosion of the product in presence of static discharge: Not expected.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:

Keep away from heat. Do not freeze. Keep away from sources of ignition. Do not ingest. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as strong oxidizing agents.

Storage:

Hygroscopic. Keep container tightly closed. Keep container in a cool, well-ventilated area. Normal precautions common to good manufacturing practice should be followed in handling and storage. Avoid repeated contact with skin and clothing. This product is intended for professional use only and should be kept out of the reach of children.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Provide general exhaust ventilation or other normal engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and showers are proximal to the work-station location.

Personal Protection:

RESPIRATORY PROTECTION : None required under normal conditions of use.

PROTECTIVE GLOVES : Rubber or polyvinyl chloride coated.

EYE PROTECTION : Protect eyes from liquid with safety glasses

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid. (Oily liquid.)

Odor: Faint Odor.

Color: Colorless. Clear

pH: 7.0.

Boiling Point: Not applicable

Melting Point: Not applicable

Specific Gravity: 1.082 at 20° C (Water = 1)

Vapor Pressure: < 0.025 mm Hg at 20° C

Vapor Density: 3.9 (Air = 1)

Volatility: Not available.

Odor Threshold: Not available.

Solubility in Water: Complete at 20° C

Evaporation Rate: 0.003 (Butyl Acetate = 1).

Dispersion Properties: See solubility in water.

Section 10: Stability and Reactivity Data

Stability: The product is stable under normal conditions.

Instability Temperature: Not available.

Incompatibility with various substances: Reactive with oxidizing agents, reducing agents, acids, alkalis.

Corrosivity: Non-corrosive in presence of glass.

Polymerization: Will not occur.

Hazardous Combustion or Decomposition Products: Burning under certain conditions can produce aldehydes, ketones, carbon dioxide and / or carbon monoxide.

Section 11: Toxicological Information

Routes of Entry: Ingestion. Eye contact.

Toxicity to Animals:

Triethylene Glycol: Acute oral toxicity (LD50): 9500 mg/kg [Rabbit]. Acute dermal toxicity (LD50): 5000 mg/kg [Rabbit].
Propylene Glycol: Acute oral toxicity (LD50): 18500 mg/kg [Rabbit]. Acute dermal toxicity (LD50): 20800 mg/kg [Rabbit].

Other Toxic Effects on Humans:

Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant, permeator).

Special Remarks on Toxicity to Animals: Not available.

Carcinogenic Effects: None reported by ACGIH, IARC, OSHA or NTP.

Section 12: Ecological Information

Ecotoxicity: None known.

BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal: RCRA WASTE: Not applicable

Section 14: Transport Information

D.O.T. SHIPPING NAME: Not D.O.T. regulated

D.O.T. HAZARD CLASS: None

DOT ID NUMBER: UN Not Applicable

DOT PACKING GROUP: None

DOT RQ (lbs): Not Applicable

OTHER: None

IMDG HAZARD CLASS: None

ICAO HAZARD CLASS: None

Section 15: Regulatory Information

OSHA (1910.1200): No hazardous substances

Federal Regulations: SARA Title III: No hazardous substances

CERCLA 102 (a) / DOT Hazardous Substances: No hazardous substances

TSCA Inventory Status: This product is listed on the Toxic Substance Control Act (TSCA) Chemical Substance inventory.

State Regulations:

California Proposition 65: No detectable components of this product are substances, or belong to classes or substances, known to the State of California to cause cancer and/or reproductive toxicity.

States Right-to-know Regulations:

CAS # 57-55-6, 112-27-6 PA, RI

State list:

CT (Connecticut), FL (Florida), IL (Illinois), MI (Michigan), LA (Louisiana), MA (Massachusetts), NJ (New Jersey), PA (Pennsylvania), RI (Rhode Island)

Note: The ACGIH TLV listed above for the following ingredient(s) is an AIHA WEEL: Propylene glycol.

International Regulations

Canada WHMIS Classification: Not Regulated

Canada Inventory Status: All components are listed on the Canadian Domestic Substance List (DSL).

EINECS Inventory Status: All components are listed on the European Inventory of Existing Chemical Substances

DSCL (EEC): R21/22- Harmful in contact with skin and if swallowed. S24/25- Avoid contact with skin and eyes.

Australia Inventory Status: All components are listed on the Australian Inventory of Chemical Substances (ACIS).

Japan Inventory Status: All components are listed on the Japanese MITI inventory.

Section 16: Other Information

High End Systems urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate to use and understand the data contained in this MSDS.

To promote safe handling, each customer or recipient should: (1) notify its employees, agents, contractors and others whom it knows or believes will use this material of the information in this MSDS and any other information regarding hazards or safety; (2) furnish this same information to each of its customers for the products; and (3) request its customers to notify their employees, customers, and other users of the product of this information.

Other Special Considerations: Not available.

Last Updated: 12/1/2015

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. The opinions expressed herein are those of qualified experts within the field of Toxicology, Chemistry, and Information Specialists. These include results of independent scientific studies and Toxicology reports. We believe that the information contained herein is current as of the date of the Material Safety Sheet. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of High End Systems, it is the user's obligation to determine the conditions of safe use of the product.



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