

# SAFETY DATA SHEET

# 1. Product and Company Identification

Product identifier Molecular Fog Fluid

Other means of identification

Recommended use Theatrical Fog
Recommended restrictions None known.

Manufacturer

Ultratec Special Effects 1960 Blue Heron Drive London, ON N6H 5L9 CA Phone: 1 -519-659-7972

Not available

Toll Free Phone: 1-800-388-0617

Emergency Number: 1-800-255-3924 (ChemTel)

#### 2. Hazards Identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement** 

**Prevention** Observe good industrial hygiene practices.

**Response** Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** Not applicable.

## 3. Composition/Information on Ingredients

#### **Mixture**

Chemical name	Common name and synonyms	CAS number	%	
1,2-Propanediol		57-55-6	60 - 100	

#### Composition comments

The exact % concentration of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA HCS 1910.1200.

#### 4. First Aid Measures

**Inhalation** If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

**Skin contact** Flush with cool water. Wash with soap and water. Obtain medical attention if irritation develops or

persists.

**Eye contact** Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for

15 minutes. Obtain medical attention if irritation develops or persists.

**Ingestion** Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Obtain

medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.

Most important

symptoms/effects, acute and

delayed

Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special

treatment needed

Treat symptomatically.

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#### **General information**

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

# 5. Fire Fighting Measures

Suitable extinguishing media

Unsuitable extinguishing

media

Alcohol foam. Carbon dioxide. Water Fog. Dry chemical.

Not available

Specific hazards arising from

the chemical

Firefighters should wear a self-contained breathing apparatus.

Special protective equipment and precautions for firefighters Firefighters should wear full protective clothing including self contained breathing apparatus.

Fire-fighting

equipment/instructions

Cool containers with flooding quantities of water until well after fire is out.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

**Hazardous combustion** products

May include and are not limited to: Oxides of carbon.

No unusual fire or explosion hazards noted.

**Explosion data** 

Sensitivity to mechanical

impact

Not available.

Sensitivity to static

discharge

Not available.

#### 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up

Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

Large Spills: Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and Storage

Precautions for safe handling

Avoid prolonged exposure.

Use good industrial hygiene practices in handling this material.

When using do not eat or drink.

Wash hands before breaks and immediately after handling the product.

Conditions for safe storage, including any incompatibilities Store away from incompatible materials (see Section 10 of the SDS).

Keep out of reach of children.

## 8. Exposure Controls/Personal Protection

#### Occupational exposure limits

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Components Value **Form** Type 1,2-Propanediol (CAS **TWA** 10 mg/m3 Aerosol.

57-55-6)

controls

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** 

Appropriate engineering

See above

General ventilation normally adequate.

Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses recommended.

Skin protection

Hand protection If there is constant skin contact, rubber gloves are recommended.

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Not normally required if good ventilation is maintained. Where exposure guideline levels may be Respiratory protection

exceeded, use an approved NIOSH respirator.

Thermal hazards Not available.

General hygiene considerations

Wash hands before breaks and immediately after handling the product. Handle in accordance with

good industrial hygiene and safety practice. When using do not eat or drink.

#### 9. Physical and Chemical Properties

Clear **Appearance** Liquid. Physical state Form Liquid Colorless Color no odour Odor Not available. Odor threshold Neutral Not available. Melting point/freezing point Not available.

Initial boiling point and boiling

range

Not available. Pour point 1.04 (H2O = 1)Specific gravity **Partition coefficient** Not available.

(n-octanol/water)

Flash point > 217.4 °F (> 103.0 °C) Tag Closed Cup

**Evaporation rate** Not available. Not applicable. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Not available.

Not available. Explosive limit - lower (%) Not available. Explosive limit - upper (%) Vapor pressure Not available. > 1 (Air = 1)

Vapor density Relative density Not available. Complete Solubility(ies) **Auto-ignition temperature** Not available. Not available. **Decomposition temperature** Not available. **Viscosity** 

Other information

Combustible IIIB Flash point class

# 10. Stability and Reactivity

May react with incompatible materials. Reactivity

Possibility of hazardous

reactions

products

Hazardous polymerization does not occur.

Stable.

Chemical stability

Conditions to avoid Avoid temperatures exceeding the flash point.

Contact with incompatible materials. Do not mix with other chemicals.

Incompatible materials

**Hazardous decomposition** 

Acids. Oxidizers.

May include and are not limited to: Oxides of carbon.

# 11. Toxicological Information

Eye, Skin contact, Inhalation, Ingestion. Routes of exposure

Information on likely routes of exposure

IngestionMay cause stomach distress, nausea or vomiting.InhalationNo adverse effects due to inhalation are expected.Skin contactNo adverse effects due to skin contact are expected.Eye contactNo adverse effects due to eye contact are expected.

Symptoms related to the physical, chemical and toxicological characteristics

There are no hazards associated with this product in normal use.

#### Information on toxicological effects

**Acute toxicity** 

Components	Species	Test Results
1,2-Propanediol (CAS 57-5	5-6)	
Acute		
Dermal		
LD50	Rabbit	20800 mg/kg
Inhalation		
LC50	Not available	
Oral		
LD50	Dog	19000 mg/kg
	Guinea pig	184000 mg/kg
	Mouse	23900 mg/kg
	Rabbit	14800 mg/kg
	Rat	20000 mg/kg

**Skin corrosion/irritation**Not expected to be a primary skin irritant. Prolonged skin contact may cause temporary irritation.

Exposure minutes Not available.

Erythema value Not available.

Oedema value Not available.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Corneal opacity value Not available.

Iris lesion value Not available.

Conjunctival reddening value

Conjunctival oedema value Not available.

Respiratory or skin sensitization

Recover days

Respiratory sensitization Not available.

**Skin sensitization** This product is not expected to cause skin sensitization.

Not available.

Germ cell mutagenicity

Non-hazardous by WHMIS/OSHA criteria.

Mutagenicity

Non-hazardous by WHMIS/OSHA criteria.

Carcinogenicity

Non-hazardous by WHMIS/OSHA criteria.

Reproductive toxicity

Non-hazardous by WHMIS/OSHA criteria.

Teratogenicity

Non-hazardous by WHMIS/OSHA criteria.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not classified.

Chronic effects Non-hazardous by WHMIS/OSHA criteria.

**Further information** This product has no known adverse effect on human health.

Name of Toxicologically Synergistic Products

Not available.

12.	Eco	logical	Information
		5	

**Ecotoxicity** Components of this product have been identified as having potential environmental concerns. See

below

Components Species Test Results

1,2-Propanediol (CAS 57-55-6)

Crustacea EC50 Daphnia 10000 mg/L, 48 Hours

**Aquatic** 

Crustacea EC50 Water flea (Daphnia magna) > 10000 mg/l, 48 hours

Fish LC50 Fathead minnow (Pimephales promelas) 710 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potentialNo data available.Mobility in soilNo data available.Mobility in generalNot available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

Disposal instructions Review federal, state/provincial, and local government requirements prior to disposal. Collect and

reclaim or dispose in sealed containers at licensed waste disposal site.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code**The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

## 14. Transport Information

General Canada: TDG Proof of Classification: In accordance with Part 2.2.1 (SOR/2014-152) of the

Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue. If applicable, the technical name and the classification of

the product will appear below.

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

**Canadian federal regulations** This product has been classified in accordance with the hazard criteria of the Controlled Products

Regulations and the SDS contains all the information required by the Controlled Products

Regulations.

**Canada WHMIS Ingredient Disclosure: Threshold limits** 

1,2-Propanediol (CAS 57-55-6) 1 %

WHMIS status Not Controlled

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US CAA Section 111 Volatile Organic Compounds: Listed substance

1,2-Propanediol (CAS 57-55-6) Listed

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

hazardous substance

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

**Safe Drinking Water Act** 

(SDWA)

Not regulated.

Food and Drug

Not regulated.

Administration (FDA)

**US 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 Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed

**US - Minnesota Haz Subs: Listed substance** 

1,2-Propanediol (CAS 57-55-6) Listed.

US - New Jersey RTK - Substances: Listed substance

1,2-Propanediol (CAS 57-55-6) Listed.

**US - Texas Effects Screening Levels: Listed substance** 

1,2-Propanediol (CAS 57-55-6) Listed.

**US. Massachusetts RTK - Substance List** 

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

1,2-Propanediol (CAS 57-55-6) Listed.

**US. Rhode Island RTK** 

Not regulated.

#### **Inventory status**

Inventory name	On inventory (yes/no)*
Domestic Substances List (DSL)	Yes
Non-Domestic Substances List (NDSL)	No
Toxic Substances Control Act (TSCA) Inventory	Yes
	Domestic Substances List (DSL) Non-Domestic Substances List (NDSL)

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

#### 16. Other Information

LEGEND	
Severe Serious Moderate Slight Minimal	4 3 2 1

HEALTH /	0
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	х



Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue date 15-July-2015 Effective date 15-July-2015 **Further information** 

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

Prepared by

Other information

Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.