

SAFETY DATA SHEET

1. Product and Company Identification

Product identifier Molecular Fog Fluid

Other means of identificationNot availableRecommended useTheatrical FogRecommended restrictionsNone known.

Manufacturer information Ultratec Special Effects

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

Toll Free Phone: 1-800-388-0617

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

Supplier See above.

2. Hazards Identification

Physical hazardsNot classified.Health hazardsNot classified.Environmental hazardsNot classified.WHMIS 2015 defined hazardsNot 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.

None known

None known

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

WHMIS 2015: Health Hazard(s)

not otherwise classified

(HHNOC)

WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)

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	80-100*

Composition comments

US GHS: The exact percentage (concentration) of composition has been withheld as a trade

secret in accordance with paragraph (i) of §1910.1200.

*CANADA GHS: The exact percentage (concentration) of composition has been withheld as a

trade secret.

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.

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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.

Direct contact with eyes may cause temporary irritation.

Most important symptoms/effects, acute and delayed

Indication of immediate medical attention and special Treat symptomatically.

treatment needed **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. Wear rubber gloves and safety glasses with side shields. Keep out of reach of children.

5. Fire Fighting Measures

Suitable extinguishing media

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

Unsuitable extinguishing media

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

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

Specific methods

products

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

General fire hazards **Hazardous combustion**

equipment/instructions

No unusual fire or explosion hazards noted.

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

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

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.

Methods and materials for containment and cleaning up

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. Store away from incompatible materials (see Section 10 of the SDS).

Conditions for safe storage, Keep out of reach of children. including any incompatibilities

8. Exposure Controls/Personal Protection

Occupational exposure limits

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	гуре	value	Form
1,2-Propanediol (CAS 57-55-6)	TWA	155 mg/m3	Vapor and aerosol.
,		10 mg/m3	Aerosol.
		50 ppm	Vapor and aerosol.
US. AIHA Workplace Environme	ental Exposure Level (WEEL) Guides		
Components	Туре	Value	Form
1,2-Propanediol (CAS	TWA	10 mg/m3	Aerosol.
57-55-6)		-	

#12971 Page: 2 of 7 Issue date 27-March-2019 Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelinesChemicals listed in section 3 that are not listed here do not have established limit values for

ACGIH or OSHA PEL.

Appropriate engineering

controls

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.

Other As required by employer code.

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

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

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

range

Pour pointNot available.Specific gravity(H2O = 1)Partition coefficientNot available.

(n-octanol/water)

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

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density > 1 (Air = 1)

Relative density

Solubility(ies)

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available.

Not available.

10. Stability and Reactivity

Reactivity May react with incompatible materials.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Chemical stability Stable.

Conditions to avoid Avoid temperatures exceeding the flash point. Do not mix with other chemicals.

Incompatible materials Acids. Oxidizers.

11. Toxicological Information

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

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

Additionally			
Components	Species	Test Results	
1,2-Propanediol (CAS 57-55-6)			
Acute			
<i>Dermal</i> LD50	Rabbit	> 2000 mg/kg, 24 Hours, ECHA	
2200	Nabbit	20800 mg/kg, Millipore	
Inholotion		20000 Hig/kg, Millipore	
Inhalation LC50	Rabbit	> 317042 mg/m3, 2 Hours, ECHA	
Oral	· Addition		
LD50	Dog	19 g/kg, HSDB	
	Guinea pig	19700 mg/kg, ECHA	
	•	18.4 g/kg, HSDB	
	Mouse	24900 mg/kg, ECHA	
		23900 mg/kg, HSDB	
		23.9 g/kg, HSDB	
	Rabbit	22.8 g/kg, CCOHS	
	, asset	18 g/kg, HSDB	
	Rat	19.4 - 36 g/kg, Millipore	
	Tat	22000 mg/kg, ECHA	
		21 g/kg, CCOHS	
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.	ation	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irrit	ation.	
Corneal opacity value	Not available.		
Iris lesion value	Not available.		
Conjunctival reddening value	Not available.		
Conjunctival oedema value	Not available.		
Recover days	Not available.		
Respiratory or skin sensitization	1		
Respiratory sensitization	Not available.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Mutagenicity	Non-hazardous by WHMIS/OSHA criteria.		
Carcinogenicity	Non-hazardous by WHMIS/OSHA criteria.		

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Non-hazardous by WHMIS/OSHA criteria. Reproductive toxicity Non-hazardous by WHMIS/OSHA criteria. **Teratogenicity**

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.

12. Ecological Information

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.

Ecotoxicological data

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 potential No data available. Mobility in soil No data available. Not available. Mobility in general

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

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

13. Disposal Considerations

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

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

Local disposal regulations

Dispose in accordance with all applicable regulations.

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

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).

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

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

emptied.

14. Transport Information

Transport of Dangerous Goods (TDG) Proof of Classification

Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. 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 HPR and the SDS contains all the information required by the HPR.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS 2015 Exemptions

Not applicable

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. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

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

SARA 302 Extremely hazardous substance

No

SARA 311/312 Hazardous

Nο

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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

Not regulated.

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

Not regulated.

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 - 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)

US - Texas Effects Screening Levels: Listed substance

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

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated

US. Pennsylvania Worker and Community Right-to-Know Law

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

US. Rhode Island RTK

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

US. California Proposition 65

Not Listed.

Inventory status

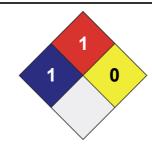
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

16. Other Information







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.

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

document.