

SAFETY DATA SHEET

1. Product and Company Identification

Product identifier Fire & Safety Longer Lasting Smoke

Other means of identification Not available 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

Toll Free Phone: 1-800-388-0617

Emergency Number: 1 -800- 424-9300 (Chemtrec)

2. Hazards Identification

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

Label elements

None. Hazard symbol Signal word None

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

Precautionary statement

Prevention Observe good industrial hygiene practices.

Wash hands after handling. Response

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	15 - 40
Triethylene glycol		112-27-6	15 - 40

The exact % concentration of composition has been withheld as a trade secret in accordance with **Composition comments**

paragraph (i) of the OSHA HCS 1910.1200.

4. First Aid Measures

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

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

persists.

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

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

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

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

Most important

treatment needed

symptoms/effects, acute and

delayed

Direct contact with eyes may cause temporary irritation.

Indication of immediate

medical attention and special

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. No unusual fire or explosion hazards noted. General fire hazards

Hazardous combustion

products

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

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.

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.

Environmental precautions

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	Туре	Value	Form
1,2-Propanediol (CAS 57-55-6)	TWA	10 mg/m3	Aerosol.
Triethylene glycol (CAS 112-27-6)	TWA	10 mg/m3	Particulate.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

See above

Appropriate engineering controls

General ventilation normally adequate.

Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses recommended.

#26335 Page: 2 of 7 Issue date 24-July-2015 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

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

range

Pour pointNot available.Specific gravity1.05 (H2O = 1)Partition coefficientNot available.

(n-octanol/water)

Flash point > 249.8 °F (> 121.0 °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. > 1 (Air = 1)Vapor density Not available. Relative density Complete Solubility(ies) Not available. **Auto-ignition temperature Decomposition temperature** Not available.

Viscosity

Not available.

Other information

Flash point class Combustible IIIB

10. Stability and Reactivity

Reactivity May react with incompatible materials.

Possibility of hazardous

reactions

Chemical stability

Conditions to avoid

Hazardous polymerization does not occur.

Stable.

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Do not mix with other chemicals.

Incompatible materials Acids. Oxidizers.

Hazardous decomposition

products

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

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

Mutagenicity

Acute toxicity				
Components	Species	Test Results		
1,2-Propanediol (CAS 57-55-6)				
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		
Triethylene glycol (CAS 112-27-6)			
Acute				
<i>Dermal</i> LD50	Rabbit	22460 mg/kg		
Inhalation LC50	Rat	> 3.9 mg/L, 4 Hours		
Oral				
LD50	Guinea pig	7900 mg/kg		
	Mouse	21000 mg/kg		
	Rabbit	8400 mg/kg		
	Rat	12800 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 t	Direct contact with eyes may cause temporary irritation.		
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	on			
Respiratory sensitization	Not available.			
Skin sensitization	This product is not expected to cause skin sensitization.			
Germ cell mutagenicity	Non-hazardous by WHMIS/OSHA criteria.			

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Non-hazardous by WHMIS/OSHA criteria.

Carcinogenicity Non-hazardous by WHMIS/OSHA criteria. Non-hazardous by WHMIS/OSHA criteria. Reproductive toxicity

Teratogenicity Non-hazardous by WHMIS/OSHA criteria.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Not classified. **Aspiration hazard**

Non-hazardous by WHMIS/OSHA criteria. **Chronic effects**

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

Name of Toxicologically **Synergistic Products**

Not available.

12. Ecological Information

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

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 promela	s) 710 mg/L, 96 hours
Triethylene glycol (CA	S 112-27-6)		
Crustacea	EC50	Daphnia	42426 mg/L, 48 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	48.9 - 56 mg/L, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	> 10000 mg/L, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

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

Hazardous waste code

Dispose in accordance with all applicable regulations.

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

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

> 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

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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 % Triethylene glycol (CAS 112-27-6) 1 %

WHMIS status Not Controlled

US federal regulationsThis 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. Triethylene glycol (CAS 112-27-6) 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)

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

chemical

No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug Administration (FDA) 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 - 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. Triethylene glycol (CAS 112-27-6) 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. Triethylene glycol (CAS 112-27-6) Listed.

US. Massachusetts RTK - Substance List

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

1,2-Propanediol (CAS 57-55-6) Listed. Triethylene glycol (CAS 112-27-6) Listed.

US. Rhode Island RTK

Not regulated.

Inventory status

Country(s) or region Inventory name On inventory (yes/no)*

Canada Domestic Substances List (DSL) Yes

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Country(s) or region Inventory name On inventory (yes/no)*

Canada Non-Domestic Substances List (NDSL)
United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

No

Yes

*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	4
Serious	3
Moderate	2
Slight	1
Minimal	0





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

document.

Prepared by 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.

Prepared by Other information