

#### **SAFETY DATA SHEET**

according to 1907/2006/EC, Article 31

### Fog Fluid 5 Liter

Date 2015-08-11

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product Name	Fog Fluid 5 Liter	
Product Part number	60603	
Product Discription	Aqueous solution of glycols	

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/mixture: Special effects fluid (fog and smoke effects)
- Use advised against: Not for internal use.

#### 1.3 Detailes of the supplier of the safety datasheet

Company	Highlite International BV
Address	Vestastraat 2,
	6468 EX Kerkrade,
	The Netherlands
Web	www.highlite.nl
Telephone	+31 (0) 45 5667700
Fax	+31 (0) 45 5667710
Email	sales@highlite.nl
Email address of the competent	sales@highlite.nl
person	

#### 1.4 Emergency telephone number

Emergency telephone number	+31 (0) 45 5667700	
	09.00am – 05:00pm Mon – Fri	

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture:

Classification (REGULATION (EC)	Not Classified
No 1272/2008) [CLP/GHS]	

#### 2.2. Label elements

Hazard pictograms	This product does not need to be labelled in accordance with EC Regulations and Directives
Signal Word	None
Hararz phrases	None
Precautionary Phrases:	None

#### 2.3. Other hazards

Other hazards	- May be harmful if swallowed
	- May cause respiratory tract irritation.
	- Not flammable but will support combustion
	- Not a PBT according to REACH Annex XIII
	- Not a vPvB according to REACH Annex XIII

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

#### 3.2. Mixtures (REGULATION (EC) No 1272/2008) CLP/GHS:

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Glycols					1 - 50%	Not classified

#### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for		
	breathing. If experiencing respiratory symptoms: Call a POISON CENTER or		
	doctor/physician.		
Eye contact	If substance has got into eyes, immediately wash out with plenty of water for several		
	Minutes Irrigate eyes thoroughly whilst lifting eyelids If eye irritation persists: Get medical		
Skin contact	advice/attention.		
	Remove contaminated clothing immediately and drench affected skin with plenty of water.		
Ingestion	Then wash with soap and water If skin irritation or rash occurs: Get medical advice/attention.		
	If swallowed, rinse mouth with water (only if the person is conscious)		
	Give 200-300mls (half pint) water to drink Get immediate medical advice/attention.		

#### 4.2. Most important symptoms and effects, both acute and delayed

	Vapours or aerosols may cause irritation of eyes, nose and respiratory tract
	The ingestion of significant quantities may cause damage to kidneys
	The ingestion of significant quantities may cause damage to central nervous system

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically		Treat symptomatically
		Monitoring is advised of cardio-vascular, lung and CNS functions as well as acid-base
		balance and kidney and liver parameters.

#### **SECTION 5: Firefighting measures**

5.1. Extinguishing media	- In case of fire use water, alcohol resistant foam, carbon dioxide or dry agent	
	- Unsuitable extinguishing media: high volume water jet	

#### 5.2. Special hazards arising from - Gives off irritating or toxic fumes (or gases) in a fire.

the substance or mixture	- May form explosive vapour/air mixtures
	- Decomposition products may include carbon oxides
5.3. Advice for fire-fighters	- Special protective equipment: Wear self-contained breathing apparatus (SCBA). Wear
	full protective clothing including chemical protection suit.
	- Keep container(s) exposed to fire cool, by spraying with water
	- Shut off all ignition sources
	- Collect contaminated fire extinguishing water separately. This MUST not be discharged into
	drains. Prevent fire extinguishing water from contaminating surface or ground water.

#### **SECTION 6: Accidental release measures**

6.1. Personal precautions,	- Do not breathe spray/mists
protective equipment and	- Ensure adequate ventilation
emergency procedures	- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
	No smoking.
	- Avoid contact with skin and eyes.

6.2. Environmental precautions	- Do not flush spilt material into any public water system
	- Do not allow to enter public sewers and watercourses
	- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate
	authorities

6.3. Methods and material for	- Absorb spillage in inert material and shovel up
containment and cleaning up	- Place in appropriate container
	- Seal containers and label them
	- Remove contaminated material to safe location for subsequent disposal
	- Ventilate the area and wash spill site after material pick-up is complete
	- Wash thoroughly after dealing with spillage

6.4. Reference to other sections	See Section 8 & 13

#### **SECTION 7: Handling and storage**

- Avoid breathing vapours, mist or gas
- Use only in well ventilated areas
- May form explosive vapour/air mixtures
- Vapours are heavier than air and may travel considerable distances to a source of ignition
and flashback
- Avoid contact with skin and eyes
- When using do not eat, drink or smoke
- Wash thoroughly after handling.
- Contaminated clothing should be laundered before reuse
- Contaminated work clothing should not be allowed out of the workplace.
- Eyewash bottles should be available
- See Section 8

## 7.2. Conditions for safe storage, including any incompatibilities - Store in a dry place. Store in a closed container. - Keep container in a well-ventilated place - Keep in an area equipped with impermeable flooring. - Protect from light - Keep away from oxidisers, heat, flames or ignition sources - Keep away from acids and alkalis

- Keep away from isocyanates - Keep away from food, drink and animal feedingstuffs - Store at ambient temperature - Storage containers should not be made from aluminium	
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7.3. Specific end use(s) - Special effects fluid (fog and smoke effects)

#### **SECTION 8: Exposure controls/personal protection**

8.1. Control parameters	Special effects fogs produced using this product shall be considered to meet the requirements of the Entertainment Services and Technology Association (ESTA) Standard E1.5 - 2009 if the concentration of total dihydric and trihydric alcohols breathed by a worker or audience member is no greater than 10 mg/m3 TWA long-term exposure and 40 mg/m3 short-term peak exposure.  - glycols
	(Germany) MAK 1000 mg/m3  DNEL (dermal) 40 mg/kg (bw/day) Industry, Long Term, Systemic Effects  DNEL (inhalational) 50 mg/m3 Industry, Long Term, Local Effects  DNEL (dermal) 20 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  DNEL (inhalational) 25 mg/m3 Consumer, Long Term, Local Effects  PNEC (fresh water) 10 mg/l  PNEC (marine water) 1 mg/l  PNEC (fresh water sediment) 46 mg/kg
	PNEC (soil) 3.32 mg/kg PNEC (STP) 10 mg/l

#### 8.2. Exposure controls

- Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines
- Wear protective gloves/protective clothing/eye protection/face protection.
- The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- The selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristics of the brand of glove used and the supplier should be consulted.
- Glove material: nitrile rubber

Thickness: 0.35mm Breakthrough time: >=8 h

**Reference: GESTIS** 

- Wear safety glasses approved to standard EN 166.
- In case of inadequate ventilation wear respiratory protection.
- Where an air-purifying respirator is required, use EN 141, EN 405, EN 14387, Type A











#### SECTION 9: Physical and chemical properties

9.1. Information on basic physical		
and chemical properties	- Appearance:	Liquid, clear, colourless
	- Odour:	None

	- Odour threshold:	No information available
	- pH:	6 - 8
	- Melting point/freezing point:	(Lit) -7°C
	- Initial boiling point and boiling range:	(Lit) 102°C
	- Flashpoint:	(Lit) (c.c.) >177°C
	- Evaporation Rate:	No information available
	- Flammability (solid,gas):	Not applicable
	- Upper/lower flammability or explosive limits:	Upper explosive limit (Lit) 9.2 % (in air),
	Lower explosive limit (Lit) 0.9 % (in air)	
	- Vapour Pressure:	No information available
	- Vapour Density:	No information available
	- Relative Density:	1.05
	- Solubility(ies):	Soluble in water
	- Partition Coefficient (n-Octanol/Water):	Log Kow - 1.7 @ 20°C
	- Autoignition Temperature:	>350°C
	- Decomposition temperature:	No information available
	- Viscosity:	Viscosity 3 centipoise at 20 deg C
	- Explosive Properties:	May form explosive mixtures with air
	- Oxidising Properties:	Not oxidising
9.2. Other information	- No information available	
SECTION 10: Stability and reacti	vitu	
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10.1. Reactivity	- Reacts violently with acids and alkalis	
	- Reacts violently with oxidizing substances	
	- Reacts violently with isocyanates	
10.2. Chemical stability	- Considered stable under normal conditions	
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10.2. Chemical stability  10.3. Possibility of hazardous	- Considered stable under normal conditions  - May form explosive vapour/air mixtures	

	- Incompatible with isocyanates
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10.6. Hazardous decomposition	- Decomposition products may include carbon oxides
products	

- Keep away from heat and sources of ignition

Incompatible with strong acids
Incompatible with alkalis (strong bases)
Incompatible with oxidizing substances

#### SECTION 11: Toxicological information

10.4. Conditions to avoid

10.5. Incompatible materials

11.1. Information on toxicological	- Acute Toxicity
effects	The main route of exposure is via the respiratory tract and almost complete
	absorption is assumed.

Lethal dose for man: 5-15g/kg/bw
LD50 (oral,rat) >2000 mg/kg
LC50 (inhalation, rat) (dust/mistl) > 5.2 mg/l/4h
LC50 (inhalation, rat) (vapour/aerosol) >5000 mg/m3/4h
LD50 (dermal,rabbit) >2000 mg/kg
Based on available data, the classification criteria are not met

- Skin corrosion/irritation

  Based on available data, the classification criteria are not met
- Serious eye damage/irritation
   Based on available data, the classification criteria are not met
- Respiratory or skin sensitisation

  Based on available data, the classification criteria are not met
- Germ cell mutagenicity
  No evidence of mutagenic effects
- Carcinogenicity

  No evidence of carcinogenic effects
- Reproductive toxicity
  No evidence of reproductive effects
- Specific target organ toxicity (STOT) single exposure No information available
- Specific target organ toxicity (STOT) repeated exposure
- Can cause damage to: Kidneys (oral route) through prolonged or repeated
- Aspiration hazard exposure No information available
- Contact with eyes
   Mildly irritating to eyes
- Contact with skin May cause irritation
- Ingestion

The ingestion of significant quantities may cause dizziness, confusion, headache or stupor

The ingestion of significant quantities may cause drowsiness

The ingestion of significant quantities may cause diarrhoea

The ingestion of significant quantities may cause damage to kidneys

The ingestion of significant quantities may cause damage to central nervous system

The ingestion of significant quantities may cause damage to liver

The ingestion of significant quantities may cause nausea/vomiting

- Inhalation

Effect may vary from irritation of the nasal mucous membrane to severe lung irritation.

May cause coughing

May cause dry throat

In cases of severe exposure, irritation of the respiratory tract may develop

In cases of severe exposure, drowsiness may develop

In cases of severe exposure, dizziness, confusion, headache or stupor may develop

#### **SECTION 12: Ecological information**

12.1. Toxicity	- No experimental test data available for the mixture
	- glycols
	LC50 (fish) 59900-92500 mg/l (96 hr)
	LC50 (crustaceans) 39300-52400 mg/l (48 hr)
	EC50 (crustaceans) 42400-52400 mg/l (48 hr)
	EC50 (Daphnia magna) >10000 mg/l (48 hr)

12.2. Persistence and	- Readily biodegradable
degradability	

12.3. Bioaccumulative potential	- Bioaccumulation is not expected
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12.4. Mobility in soil	- Completely soluble in water
	- This substance is poorly absorbed onto soils or sediments

12.5. Results of PBT and vPvB	- Not a PBT according to REACH Annex XIII
assessment	- Not a vPvB according to REACH Annex XIII

12.6. Other adverse effects	- Water Hazard Class 1 (Germany)

#### **SECTION 13: Disposal considerations**

13.1. Waste treatment methods	- This material and/or its container must be disposed of as hazardous waste
	- Contaminated absorbent must be removed in sealed, plastic lined drums.
	- Do not reuse empty containers without commercial cleaning or reconditioning
	- Do not pierce or burn container, even after use
	- Empty containers may contain flammable vapours
	- Avoid release to the environment.
	- Disposal should be in accordance with local, state or national legislation

13.2. Classification	- The waste must be identified according to the List of Wastes (2000/532/EC)
	- Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined.
	Since this product is used in several industries, no Waste Code can be provided by the
	supplier. The Waste Code should be determined in arrangement with your waste disposal
	partner or the responsible authority.

#### **SECTION 14: Transport information**

#### Not classified as hazardous for transport

14.1 UN Number	
	- UN No.: Not applicable
14.2 UN Proper Shipping Name	- Proper Shipping Name: Not applicable

14.3 Transport hazard class(es)	- Hazard Class: Not applicable
14.4 Packing group	- Packing Group: Not applicable
14.5 Environmental hazards	- Not Classified
14.6 Special precautions for user	- No special precautions are required for this product
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	- Not applicable
14.8 Road/Rail (ADR/RID)	- Proper Shipping Name: Not applicable - ADR UN No.: Not applicable - ADR Hazard Class: Not applicable - ADR Packing Group: Not applicable - Tunnel Code: Not applicable
14.9 Sea (IMDG)	- Proper Shipping Name: Not applicable - IMDG UN No.: Not applicable - IMDG Hazard Class: Not applicable - IMDG Pack Group.: Not applicable
14.9 Sea (IMDG)	14.10 Air (ICAO/IATA) - Proper Shipping Name: Not applicable - ICAO UN No.: Not applicable - ICAO Hazard Class: Not applicable - ICAO Packing Group: Not applicable

#### **SECTION 15: Regulatory information**

**SECTION 16: Other information** 

15.1. Safety, health and	- This Safety Data Sheet is provided in compliance with REACH Regulation (EC) No
environmental	1907/2006 as amended by Regulation (EU) 2015/830
regulations/legislation specific for	- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of
the substance or mixture	substances and mixtures (CLP Regulation) applies in Europe

15.2. Chemical safety assessment	- A REACH chemical safety assessment has been carried out
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# The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication, however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

Version 2 - Revised July 2015 due to change in formulation.