



SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

Fog Fluid 1 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 1 Liter
Product Part number	60627
Product Description	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 Details of the supplier of the safety datasheet

Company Address	Highlite International BV 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 person	sales@highlite.nl

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) No 1272/2008) [CLP/GHS]	Not Classified
---	----------------

2.2. Label elements

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

Fog Fluid 1 Liter

Date 2015-08-11

2.3. Other hazards

Other hazards	<ul style="list-style-type: none">- 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: Not classified

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 advice/attention.
Skin contact	Remove contaminated clothing immediately and drench affected skin with plenty of water. Then wash with soap and water If skin irritation or rash occurs: Get medical advice/attention.
Ingestion	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
	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	<ul style="list-style-type: none">- 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 the substance or mixture	<ul style="list-style-type: none">- Gives off irritating or toxic fumes (or gases) in a fire.- May form explosive vapour/air mixtures- Decomposition products may include carbon oxides
--	---

Fog Fluid 1 Liter

Date 2015-08-11

5.3. Advice for fire-fighters	<ul style="list-style-type: none">- 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, protective equipment and emergency procedures	<ul style="list-style-type: none">- Do not breathe spray/mists- Ensure adequate ventilation- 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	<ul style="list-style-type: none">- 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 containment and cleaning up	<ul style="list-style-type: none">- Absorb spillage in inert material and shovel 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

7.1. Precautions for safe handling	<ul style="list-style-type: none">- 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	<ul style="list-style-type: none">- 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
--	--

Fog Fluid 1 Liter

Date 2015-08-11

	<ul style="list-style-type: none"> - Keep away from food, drink and animal feedingstuffs - Store at ambient temperature - Storage containers should not be made from aluminium
--	---

7.3. Specific end use(s)	- Special effects fluid (fog and smoke effects)
--------------------------	---

SECTION 8: Exposure controls/personal protection

8.1. Control parameters	<p>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.</p> <ul style="list-style-type: none"> - glycols <p>(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</p>
-------------------------	--

8.2. Exposure controls	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - Appearance: Liquid, clear, colourless
--	---

Fog Fluid 1 Liter

Date 2015-08-11

	<ul style="list-style-type: none">- Odour: None- Odour threshold: No information available- pH: 6 - 8- Melting point/freezing point: (Lit) -4°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: 1.04- Solubility(ies): Soluble in water- Partition Coefficient (n-Octanol/Water): Log Kow - 1.7 @ 20°C (Lit)- Autoignition Temperature: >350°C- Decomposition temperature: No information available- Viscosity: Viscosity 2 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 reactivity

10.1. Reactivity	<ul style="list-style-type: none">- Reacts violently with acids and alkalis- Reacts violently with oxidizing substances- Reacts violently with isocyanates
------------------	--

10.2. Chemical stability	- Considered stable under normal conditions
--------------------------	---

10.3. Possibility of hazardous reactions	- May form explosive vapour/air mixtures
--	--

10.4. Conditions to avoid	- Keep away from heat and sources of ignition
---------------------------	---

10.5. Incompatible materials	<ul style="list-style-type: none">- Incompatible with strong acids- Incompatible with alkalis (strong bases)- Incompatible with oxidizing substances- Incompatible with isocyanates
------------------------------	--

10.6. Hazardous decomposition products	- Decomposition products may include carbon oxides
--	--

SECTION 11: Toxicological information

11.1. Information on toxicological effects	<ul style="list-style-type: none">- Acute Toxicity The main route of exposure is via the respiratory tract and almost complete absorption is assumed. Lethal dose for man: 5-15g/kg/bw
--	---

Fog Fluid 1 Liter

Date 2015-08-11

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 exposure

- Aspiration hazard
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

Fog Fluid 1 Liter

Date 2015-08-11

SECTION 12: Ecological information

12.1. Toxicity	<ul style="list-style-type: none">- No experimental test data available for the mixture- glycols<ul style="list-style-type: none">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 degradability	<ul style="list-style-type: none">- Readily biodegradable
12.3. Bioaccumulative potential	<ul style="list-style-type: none">- Bioaccumulation is not expected
12.4. Mobility in soil	<ul style="list-style-type: none">- Completely soluble in water- This substance is poorly absorbed onto soils or sediments
12.5. Results of PBT and vPvB assessment	<ul style="list-style-type: none">- Not a PBT according to REACH Annex XIII- Not a vPvB according to REACH Annex XIII
12.6. Other adverse effects	<ul style="list-style-type: none">- Water Hazard Class 1 (Germany)

SECTION 13: Disposal considerations

13.1. Waste treatment methods	<ul style="list-style-type: none">- 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	<ul style="list-style-type: none">- 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	<ul style="list-style-type: none">- UN No.: Not applicable
14.2 UN Proper Shipping Name	<ul style="list-style-type: none">- Proper Shipping Name: Not applicable
14.3 Transport hazard class(es)	<ul style="list-style-type: none">- Hazard Class: Not applicable

Fog Fluid 1 Liter

Date 2015-08-11

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
14.10 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

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

SECTION 16: Other information

	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.
--	--