# MATERIAL SAFETY DATA SHEET



## Section 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** : **Fog Liquid**
**Trade Name** : **FLG-1 / FLG-2 / FLG-4 / FLG-5 / FLG-6 / FLG-10 / FLG-20 / FLG-200**
**Product Type** : **Stage**

**Details of the supplier of the material safety data sheet**
**Manufacturer/Supplier:**
Antari Lighting & Effects Ltd.
No.8, Ln. 231, Sec. 1, Nankan Rd., Luzhu Dist., Taoyuan City 338, Taiwan (R.O.C.)
Tel: +886 33225829

**Further information obtainable from:** Antari Lighting & Effects Ltd.
**Emergency telephone number:**
Jason Ho
Tel: +886 33225829
**Email:** jasonho@antari.com.tw

## Section 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
This substance is not classified as dangerous according to Directive 67/548/EEC.

### Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

### Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

Product description：Compounding

| Component | CAS No. | Concentration |
|---|---|---|
| Propane-1,2-diol | 57-55-6 | Proprietary |
| Glycerol | 56-81-5 | Proprietary |
| Distilled Water | 7732-18-5 | Proprietary |
| Acid Blue 9 | 3844-45-9 | Proprietary |
| Food Yellow 3 | 2783-94-0 | Proprietary |

Note(s): This is not a dangerous substance

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## Section 4. FIRST AID MEASURES

**After inhalation:** Supply fresh air; consult doctor in case of complainte.
**After skin contact:** Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
**After eye contact:** Rinse opened eye for several minutes under running water.
If symptoms persist, consult a doctor.
**After swallowing:** if symptoms persist consult doctor.

## Section 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
**Special hazards arising from the substance or mixture** No further relevant information available.
**Protectove equipment:** Mouth respiratory protective device.

## Section 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
**Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers / surface or ground water.
**Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

## Section 7. HANDLING AND STORAGE

**Handling:**
**Precautions for safe handling:** Keep receptacles tightly sealed.
**Information about protection against explosions and fires:** Keep ignition sources away.

**Storage:**
**Requirements to be met by storerooms and receptacles:** Store in a cool location.
**Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from flammable substances.
**Further information about storage conditions:** Keep receptacle tightly sealed.

## Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Additional information about design of technical systems:** No further data; see item 7.

| · *Components with limit values that require monitoring at the workplace:* | |
|---|---|
| ***57-55-6 propane-1,2-diol*** | |
| *WEEL (USA)* | *10 mg/m³* |
| *EV (Canada)* | *155* 10** mg/m³, 50* ppm*<br>**vapour and aerosol;**aerosol only* |
| ***56-81-5 glycerol*** | |
| *PEL (USA)* | *15* 5** mg/m³*<br>**total dust **respirable fraction* |
| *TLV (USA)* | *10* ppm*<br>**Mist* |
| *EL (Canada)* | *10* 3** mg/m³*<br>**mist; **mist, resirable* |
| *EV (Canada)* | *10 mg/m³* |
| *LMPE (Mexico)* | *10 mg/m³*<br>*(i)* |

**Additional information:** The lists that were valid during the creation were used as basis.

**Based on the composition shown in section 3, the following measures are suggested for occupational safety measure**

**General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

**Breathing equipment:** Suitable respiratory protective device recommended.

**Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

Goggles recommended during refilling.

## Section 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **General Information** | |
| **Appearance:** | |
| **Form:** | Liquid |
| **Color:** | Transparent |
| **Odor:** | Odorless |
| **Odour threshold:** | Not available |
| **pH-value:** | Not available |
| **Change in condition** | |
| **Melting point/Melting range:** | Not available |
| **Freezing point:** | Not available |
| **Boiling point/Boiling range:** | Not available |
| **Flash point:** | Not available |
| **Flammability (solid, gaseous):** | Not available |
| **Auto-Ignition temperature:** | Not available |
| **Decomposition temperature:** | Not available |
| **Explosion limits:** | |
| **Lower:** | Not available |
| **Upper:** | Not available |
| **Vapor pressure:** | Not available |
| **Density:** | Not available |
| **Relative density:** | Not available |
| **Vapour density:** | Not available |
| **Evaporation rate:** | Not available |
| **Solubility in / Miscibility with** | |
| **Water:** | Not available |
| **Partition coefficient (n-octanol/water):** | Not available |
| **Viscosity:** | |
| **Dynamic:** | Not available |
| **Kinematic:** | Not available |

## Section 10. STABILITY AND REACTIVITY

**Reactivity:** No decomposition if used according to specifications.
**Chemical stability:** Stable under recommended storage conditions.
**Possibility of hazardous reactions:** No dangerous reactions known.
**Conditions to avoid:** No further relevant information available.
**Incompatible materials:** No further relevant information available.
**Hazardous decomposition products:** No dangerous decomposition products known.

## Section 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:**

| · *LD/LC50 values that are relevant for classification:* | | |
|---|---|---|
| ***57-55-6 propane-1,2-diol*** | | |
| *Oral* | *LD50* | *20000 mg/kg (rat)* |
| *Dermal* | *LD50* | *20800 mg/kg (rabbit)* |
| ***56-81-5 glycerol*** | | |
| *Oral* | *LD50* | *4090 mg/kg (mouse)* |
| | | *12600 mg/kg (rat)* |
| *Dermal* | *LD50* | *>10000 mg/kg (rabbit)* |

**Primary irritant effect:**
**on the skin:** Irritating effect possible
**on the eye:** Irritating effect possible
**Sensitization:** Sensitization possible through skin contact.
**Additional toxicological information:**
The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

**Carcinogenic categories**

| **IARC (International Agency for Research on Cancer)** |
|---|
| None of the ingredients is listed. |
| |
| **NTP (National Toxicology Program)** |
| None of the ingredients is listed. |

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## Section 12. ECOLOGICAL INFORMATION

Toxicity
**Aquatic toxicity:** No further relevant information available.
**Persistence and degradability:** No further relevant information available.
**Bioaccumulative potential:** No further relevant information available.
**Mobility in soil:** No further relevant information available.

**Additional ecological information:**
**General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## Section 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**
**Recommendation:** Smaller quantities can be disposed of with household waste.

Uncleaned packagings:
**Recommendation:** Disposal must be made according to official regulations.
**Recommended cleansing agent:** Water, if necessary with cleansing agents.

## Section 14. TRANSPORT INFORMATION

| | |
|---|---|
| UN-Number | |
| DOT, IMDG, IATA | Not applicable |
| UN proper shipping name | |
| DOT, IMDG, IATA | Not applicable |
| Transport hazard class(es) | |
| DOT, ADN, IMDG, IATA | |
| Class | Not applicable |
| Packing group | |
| DOT, IMDG, IATA | Not applicable |
| Environmental hazards: | |
| Marine pollutant: | No |
| Special precautions for user | Not applicable |
| EMS Number: | Not applicable |
| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable |

## Section 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Sara**

**Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

**Section 313 (Specific toxic chemical listings):**

Substance is not listed.

None of the ingredients is listed.

**TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**Proposition 65**

**Chemicals known to cause cancer:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**Cancerogenity categories**

**EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**National regulations:**

**Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

## Section 16. OTHER INFORMATION

The contents and format of this **MSDS/SDS** are in accordance with **29 CFR 1910.1200(g).**

**DISCLAIMER OF LIABILITY**

The information in this **MSDS/SDS** was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.
This **MSDS/SDS** was prepared and is to be used only for this product. If the product is used asa component in another product, this **MSDS/SDS** information may not be applicable.

**Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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