

Safety Data Sheet

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No.
10302007861, "Regulations for the Labeling and Hazard
Communication of Hazardous Chemicals"
Chemical name: Fog Liquid
Version:1.0

Date of issue: 2019/01/30
Revision date:
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1. Identification of the chemical and of the business entity

Chemical name	: Fog Liquid
Trade Name	: FLP-700
Product Type	: Stage / Security / Theater Accessory
Recommended use	:
Restrictions on use	: No information available
Company identification	
Antari Lighting & Effects Ltd. No.8, Ln. 231, Sec. 1, Nankan Rd., Luzhu Dist., Taoyuan City 338, Taiwan (R.O.C.) Tel: +886 33225829 jasonho@antari.com.tw	
Emergency number	: 03-322-5829

2. Hazards identification

GHS classification (Taiwan)	
Other hazards not mentioned above are Not applicable or No data is available. ATTENTION: Contains gas under pressure, may be dangerous when exposed to heat	
Precautionary statements(GHS-TW)	
Other hazards not contributing to the classification	: No information available

3. Composition/information on ingredients

Substance: Not applicable			
Mixture: Product form : Mixture			
Chinese Name	English name	Product identifier	Concentration(%)
1, 2-丙二醇	1,2-Propanediol	(CAS-No.)57-55-6	34 - 37
甘油	Glycerin	(CAS-No.)56-81-5	3 - 6
水	Water	(CAS-No.)7732-18-5	55 - 60
氮	Nitrogen	(CAS-No.)7727-37-9	10g

4. First aid measures

First aid measures for different exposure routes	
First-aid measures general	: If symptoms persist call a doctor
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. - If inhaled, call a doctor
First-aid measures after skin contact	: Wash with water and soap as a precaution - If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse opened eye for several minutes under running water.

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First-aid measures after ingestion	: Then consult doctor : Call a poison center or a doctor if you feel unwell
Most Important Symptoms/Effects	
Symptoms/effects	: No information available
Protection for the first aid staff	
Personal Protection in First Aid and Measures	: Avoid all unnecessary exposure
Notes to physician	
Other medical advice or treatment	: Treat symptomatically

5. Fire fighting measures

Extinguishing media	
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire
Unsuitable extinguishing media	: No information available
Specific hazards arising from firefighting measures	
Fire hazard	: Thermal decomposition generates : Carbon oxides (CO, CO ₂)
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport
Specific firefighting methods	
Firefighting instructions	: Evacuate area. - Move containers from fire area if it can be done without personal risk
Special protective equipment and precautions for fire-fighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment - Self-contained breathing apparatus - Complete protective clothing

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	
No additional information available	
For non-emergency personnel	
Emergency procedures	: Ventilate spillage area Wear respiratory protective equipment and stay away from danger area
For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment For further information refer to section 8: "Exposure controls/personal protection"
Environmental precautions	
Environmental precautions	: Avoid release to the environment Dilute with plenty of water Do not allow to enter into surface water or drains
Methods and material for containment and cleaning up	

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Methods for cleaning up	: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Other information	: Dispose of materials or solid residues at an authorized site

7. Handling and storage

Handling	
Precautions for safe handling	: Ensure good ventilation of the work station Wear personal protective equipment Keep container tightly closed. Keep away from sources of ignition
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product
Storage precautionary statements	
Storage conditions	: Store in a well-ventilated place,Keep cool,Keep away from food and drink
Incompatible products	: Stow 'away from' all flammable materials

8. Exposure controls / Personal protection equipment

Appropriate engineering controls	: Ensure good ventilation of the work station	
Control parameters		
Glycerin (56-81-5)		
Indonesia	TLV-TWA (mg/m ³)	10 mg/m ³ (mist)
USA	PEL	15*5** mg/m ³ *total dust**respirable fraction
USA	TLV	10*ppm * Mist
Canada	EL	10*3**mg/m ³ *mist**mist, respirable
Canada	EV	10 mg/m ³
Mexico	LMPE	10 mg/m ³ (i)
1,2-Propanediol (57-55-6)		
USA	WEEL	10 mg/m ³
Canada	EV	155*10** mg/m ³ ,50*ppm * vapour and aerosol ** aerosol only
Taiwan - BEI	: -	
Personal protective equipment		
General: The usual precautionary measures for handling chemicals should be followed.		
Respiratory protection: Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment		
Hand protection:		

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Hand protection	: Protective gloves. 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: Eye protection	: Safety glasses. Safety goggles recommended during refilling
Skin and body protection: Skin and body protection	: Wear suitable protective clothing
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product

9. Physical and chemical properties

Appearance	: Transparent liquid
Physical state	: Liquid
Colour	: No data available
Odour	: Odourless
Odour threshold (ppm)	: No data available
pH	: No data available
Melting point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Evaporation rate	: No data available
Density	: No data available
Specific gravity density	: No data available
Solubility	: No data available
Log Pow	: No data available
Explosive limits (vol %)	: No data available
Viscosity	: No data available
Viscosity, dynamic	: No data available

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Viscosity, kinematic	: No data available
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10. Stability and reactivity

Chemical stability	: Stable under normal conditions
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use
Conditions to avoid	: None under recommended storage and handling conditions (see section 7)
Incompatible materials	: No information available
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced

11. Toxicological information

Likely routes of exposure No additional information available	
Synonyms	
Potential adverse human health effects and symptoms	: Irritating to skin possible Irritating to eyes possible Skin sensitisation possible classification not possible
Acute toxicity	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
1,2-Propanediol (57-55-6)	
LD50 oral rat	20 g/kg
LD50 dermal rabbit	20800 mg/kg
Glycerin (56-81-5)	
LD50 oral mouse	4090 mg/kg
LD50 oral rat	12600 mg/kg
LD50 dermal rabbit	> 10 g/kg
LC50 inhalation rat (mg/l)	> 570 mg/m ³ (1 h)
Water (7732-18-5)	
LD50 oral rat	> 90 ml/kg
Skin corrosion/irritation	
Skin corrosion/irritation	: Not classified pH: No data available
Serious eye damage/irritation	
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	
Germ cell mutagenicity	: Not classified
Carcinogenicity	
Carcinogenicity	: Not classified
Reproductive toxicity	
Reproductive toxicity	: Not classified

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STOT-single exposure	
STOT-single exposure	: Not classified
STOT-repeated exposure	
STOT-repeated exposure	: Not classified
Aspiration hazard	
Aspiration hazard	: Not classified

12. Ecological information

Ecotoxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	
Chronic aquatic toxicity	: Not classified
Persistence and degradability	
Fog Liquid	
Persistence and degradability	: No information available
Bioaccumulative potential	
Fog Liquid	
Log Pow	No data available
Log Kow	No data available
Bioaccumulative potential	No information available
1,2-Propanediol (57-55-6)	
BCF fish 1	< 1
Glycerin (56-81-5)	
BCF fish 1	(no bioaccumulation)
Log Pow	-1.76
Mobility in soil	
Fog Liquid	
Log Pow	No data available
Log Kow	No data available
Ecology - soil	No information available.
Glycerin (56-81-5)	
Log Pow	-1.76
Other adverse effects	
Ozone	: Not classified

13. Disposal considerations

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions
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14. Transport information

IMDG	IATA	UNRTDG
14.1. UN number		
Not regulated for transport		
Not applicable	Not applicable	Not applicable
14.2. Proper Shipping Name		
Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available		
Special precautions for user No additional information available		

15. Regulatory information

Applicable regulations	
1. Occupational Safety and Health Act	2. Regulations for the Labeling and Hazard Communication of Hazardous Chemicals
3. Standards of Permissible Exposure Limits at Job Site	4. Traffic safety rules
5. Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste	6. Public Hazardous Substances & Flammable Pressurized Gases Establishment Standards & Safety Control Regulations
7. Assessment and Classification Management Measures of Hazardous Chemicals	

16. Other information

Data sources:	
1. LOLI	
SDS prepared by	
REACH24H	
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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 SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable