

## Section 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

#### Product Identity

ANTIBACTERIAL SOLUTION FOG LIQUID  
ITEM NO.: FLE, FLE-XXX, FLE-XXXA,  
FLE-XXXE, FLE-XXXF, FLE-XXXG,  
FLE-XXXH, (X=0~999)

#### Alternate Names

ANTIBACTERIAL SOLUTION FOG LIQUID  
ITEM NO.: FLE, FLE-XXX, FLE-XXXA,  
FLE-XXXE, FLE-XXXF, FLE-XXXG,  
FLE-XXXH, (X=0~999)

### Unique Formula Identifier

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

#### Intended Uses and Uses Advised Against

See Technical Data Sheet.

### 1.3. Details of the supplier of the safety data sheet

#### Company Name

MOISTURE 22 CO., LTD.  
NO. 10, LN.231, SEC. 1, NANKAN RD., LUZHU  
DIST, TAOYUAN CITY 338, TAIWAN  
+886 3 3225829#318

#### Customer Service:

### 1.4. Emergency telephone number

#### Emergency

#### 24 hour Emergency Telephone No.

+886 3 3225829#318



PIN CODE: 82FDAA75

## Section 2. Hazard identification of the product

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Serious eye damage / eye irritation, category 2;H319 Causes serious eye irritation.

### 2.2. Label elements

According to REGULATION (EU) 2020/878 amending Regulations EU 2015/830 and (EC) No 1907/2006



Warning

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

P280 Wear protective gloves, eye protection, face protection.

P337+313 If eye irritation persists: Get medical advice or attention.

P264 Wash thoroughly after handling.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3. Other hazards

This product contains no PBT/vPvB chemicals.

This product contains no endocrine disrupting chemicals.

## Section 3. Composition/information on ingredients

### 3.2. Mixtures

If the product contains substances that present a hazard according to Regulation (EC) No. 1272/2008 [CLP/GHS], they are listed below.

Ingredient/Chemical Designations	Weight %	EC No. 1272/2008 Classification*	Notes
Water CAS Number: 0007732-18-5 EC No. 231-791-2 Index No.:	62.1997	Not Classified	
Propylene Glycol CAS Number: 0000057-55-6 EC No. 200-338-0 Index No.:	15	Not Classified	
Glycerin CAS Number: 0000056-81-5	10	Not Classified	

EC No. 200-289-5 Index No.:			
Triethylene glycol (teg) CAS Number: 0000112-27-6 EC No. 203-953-2 Index No.:	10	Not Classified	
Phenol, 5-methyl-2-(1-methylethyl)- CAS Number: 0000089-83-8 EC No. 201-944-8 Index No.: 604-032-00-1	0.3	Acute toxicity(oral), category 4;H302 Skin corrosion/irritation category 1B;H314 Aquatic toxicity (chronic), category 2;H411	Chronic M-Factor: 1
Phenoxyethanol CAS Number: 0000122-99-6 EC No. 204-589-7 Index No.: 603-098-00-9	1	Acute toxicity(oral), category 4;H302 Serious eye damage / eye irritation, category 1;H318 undefined Single target organ toxicity, single exposure category 3;H335	Oral: ATE = 1394 mg/kg bw <sup>^CLP 3.1</sup>
1,2-hexanediol CAS Number: 0006920-22-5 EC No. 230-029-6 Index No.:	1	Serious eye damage / eye irritation, category 2;H319	
Silver CAS Number: 0007440-22-4 EC No. 231-131-3 Index No.:	0.0003	Not Classified	
Terpineol CAS Number: 0008000-41-7 EC No. 232-268-1 Index No.:	0.5	Serious eye damage / eye irritation, category 2;H319 Skin corrosion/irritation category 2;H315	

<sup>^CLP 3.1</sup> Reference EC No. 1272/2008 1.1.3.1. Notes relating to the identification, classification and labelling of substances (Table 3.1).

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

\*PBT/vPvB - PBT-substance or vPvB-substance.

The full texts of the phrases are shown in Section 16.

## Section 4. First aid measures

### 4.1. Description of first aid measures

<b>General</b>	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
<b>Eye</b>	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
<b>Skin</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
<b>Ingestion</b>	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

<b>Overview</b>	No specific symptom data available. No known long term toxicity. Treat symptomatically. See section 2 for further details.
<b>Inhalation</b>	May cause respiratory irritation.
<b>Eye</b>	Causes serious eye irritation.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	
<b>Notes to physician</b>	Treat symptomatically. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

## Section 5. Fire-fighting measures

### 5.1. Extinguishing media

Chemical dry powder, foam, CO<sub>2</sub>, water mist sprinkler

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.

### 5.3. Advice for fire-fighters

Put on appropriate personal protective equipment (see section 8).

## Section 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

Wash thoroughly after handling.

### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

### 6.3. Methods and material for containment and cleaning up

Small Spill: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

Large Spill: Flush spill area with water spray. Prevent runoff from entering drains, sewers, or streams. Dike for late disposal.

### 6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

## Section 7. Handling and storage

### 7.1. Precautions for safe handling

Store in cool, dry ventilated area. Avoid excessive heat. Always keep containers tightly closed when not in use.

Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Wear protective gloves, eye protection, face protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials: No available information

### 7.3. Specific end use(s)

No available information

## Section 8. Exposure controls / personal protection

### 8.1. Control parameters

#### Exposure

CAS No.	Ingredient	Source	Value
0000056-81-5	Glycerin	OSHA	TWA 15 mg/m <sup>3</sup> (total dust) TWA 5 mg/m <sup>3</sup> (resp)
		ACGIH	TWA: 3 mg/m <sup>3</sup> (respirable) 10 mg/m <sup>3</sup> (mist)
		NIOSH	No established RELs
		National	No Established Limit
0000057-55-6	Propylene Glycol	OSHA	No Established Limit
		ACGIH	TWA(Aerosol): 10 mg/m <sup>3</sup>
		NIOSH	No Established Limit
		National	No Established Limit
0000089-83-8	Phenol, 5-methyl-2-(1-methylethyl)-	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		National	No Established Limit
0000112-27-6	Triethylene glycol (teg)	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		National	No Established Limit
0000122-99-6	Phenoxyethanol	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		National	No Established Limit
0006920-22-5	1,2-hexanediol	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		National	No Established Limit
0007440-22-4	Silver	OSHA	TWA 0.01 mg/m <sup>3</sup>
		ACGIH	TWA: 0.01 mg/m <sup>3</sup> STEL: 0.03 mg/m <sup>3</sup>
		NIOSH	TWA 0.01 mg/m <sup>3</sup>
		National	No Established Limit
0007732-18-5	Water	OSHA	No Established Limit

0008000-41-7	Terpineol	ACGIH	No Established Limit
		NIOSH	No Established Limit
		National	No Established Limit
		OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		National	No Established Limit

Contains mineral oil. The exposure limits for oil mist are 5 mg/m<sup>3</sup> OSHA PEL and 10 mg/m<sup>3</sup> ACGIH.

## 8.2. Exposure controls

- Respiratory** If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.
- Eyes** Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.
- Skin** Avoid skin contact. Protective gloves recommended.
- Engineering Controls** Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
- Other Work Practices** Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

## Section 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical State</b>	Liquid
<b>Color</b>	Transparent
<b>Odor</b>	Specific smell
<b>Melting point / freezing point</b>	No available information
<b>Initial boiling point and boiling range</b>	100°C, Test method: Open cup
<b>Flammability (solid, gas)</b>	No available information
<b>Upper/lower flammability or explosive limits</b>	No available information
<b>Flash Point</b>	117°C, Test method: Open cup
<b>Auto-ignition temperature</b>	No available information
<b>Decomposition temperature</b>	No available information
<b>pH</b>	5.5~6.5
<b>Viscosity (cSt)</b>	No available information
<b>Solubility in Water</b>	No available information
<b>Partition coefficient n-octanol/water (Log Kow)</b>	No available information
<b>Vapor pressure (Pa)</b>	No available information

**Relative Density**

No available information

**Vapor Density**

No available information

**Evaporation rate (Ether = 1)**

No available information

**Oxidising properties**

No available information

**Explosive properties**

No available information

## 9.2. Other information

No other relevant information.

## Section 10. Stability and reactivity

### 10.1. Reactivity

Hazardous Polymerization will not occur.

### 10.2. Chemical stability

Stable under normal circumstances.

### 10.3. Possibility of hazardous reactions

No available information

### 10.4. Conditions to avoid

Avoid high temperatures and contact with incompatible material

### 10.5. Incompatible materials

No available information

### 10.6. Hazardous decomposition products

No hazardous decomposition data available.

## Section 11. Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapour LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Glycerin - (56-81-5)	27,200.00, Rat - Category: NA	45,000.00, Guinea Pig - Category: NA	No data available	> 5.85, Rat - Category: NA	No data available
Propylene Glycol - (57-55-6)	22,000.00, Rat - Category: NA	> 2,000.00, Rabbit - Category: NA	No data available	No data available	No data available
Phenol, 5-methyl-2-(1-methylethyl)- - (89-83-8)	980.00, Rat - Category: 4	> 2,000.00, Rat - Category: NA	No data available	No data available	No data available
Triethylene glycol (teg) - (112-27-6)	>16,000.00, Rat - Category: NA	16,000.00, Rabbit - Category: NA	No data available	> 5.20, Rat - Category: NA	No data available



Phenoxyethanol - (122-99-6)	1,850.00, Rat - Category: 4	14,391.00, Rat - Category: NA	No data available	> 1,000.00, Rat - Category: NA	No data available
1,2-hexanediol - (6920-22-5)	6,166.00, Rat - Category: NA	> 2,000.00, Rat - Category: NA	No data available	> 7.015, Rat - Category: NA	No data available
Silver - (7440-22-4)	> 2,000.00, Rat - Category: NA	> 2,000.00, Rat - Category: NA	No data available	> 5.16, Rat - Category: NA	No data available
Water - (7732-18-5)	90,000.00, Rat - Category: NA	No data available	No data available	No data available	No data available
Terpineol - (8000-41-7)	No data available	No data available	No data available	No data available	No data available

## Carcinogen Data

CAS No.	Ingredient	Source	Value
0000056-81-5	Glycerin	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
0000057-55-6	Propylene Glycol	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
0000089-83-8	Phenol, 5-methyl-2-(1-methylethyl)-	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
0000112-27-6	Triethylene glycol (teg)	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
0000122-99-6	Phenoxyethanol	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
0006920-22-5	1,2-hexanediol	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
0007440-22-4	Silver	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
0007732-18-5	Water	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
0008000-41-7	Terpineol	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit

Classification	Category	Hazard Description
Acute toxicity (oral)	---	---
Acute toxicity (dermal)	---	---
Acute toxicity (inhalation)	---	---



Skin corrosion/irritation	---	---
Serious eye damage/irritation	2	Causes serious eye irritation.
Respiratory sensitization	---	---
Skin sensitization	---	---
Germ cell mutagenicity	---	---
Carcinogenicity	---	---
Reproductive toxicity	---	---
STOT-single exposure	---	---
STOT-single exposure	3	May cause respiratory irritation.
STOT-repeated exposure	---	---
Aspiration hazard	---	---

## Section 12. Ecological information

### 12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

### Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L	3hr IC50 Bacteria mg/L	Biodegradability %
Glycerin - (56-81-5)	54,000.00, <i>Oncorhynchus mykiss</i>	1,955.00, <i>Daphnia magna</i>	---	---	Readily biodegradable
Propylene Glycol - (57-55-6)	40,613.00, <i>Salmo gairdneri</i>	18,340.00, <i>Ceriodaphnia dubia</i>	24,200.00 (72 hr), <i>Raphidocelis subcapitata</i>	---	100.00
Phenol, 5-methyl-2-(1-methylethyl)- - (89-83-8)	3.20, <i>Pimephales promelas</i>	4.50, <i>Daphnia magna</i>	14.00 (72 hr), <i>Pseudokirchneriella subcapitata</i>	39.60	83.00
Triethylene glycol (teg) - (112-27-6)	> 10,000.00, <i>Lepomis macrochirus</i>	> 10,000.00, <i>Daphnia magna</i>	20,518.00 (96 hr), <i>Green algae</i>	---	98.00
Phenoxyethanol - (122-99-6)	344.00, <i>Pimephales promelas</i>	> 500.00, <i>Daphnia magna</i>	> 100.00 (72 hr), <i>Desmodesmus subspicatus</i>	---	> 90.00
1,2-hexanediol - (6920-22-5)	> 1,000.00, <i>Oncorhynchus mykiss</i>	> 110.00, <i>Daphnia magna</i>	> 100.00 (72 hr), <i>Pseudokirchneriella subcapitata</i>	> 1,000.00	82.10
Silver - (7440-22-4)	0.0012, <i>Pimephales promelas</i>	0.00022, <i>Daphnia magna</i>	0.00536 (72 hr), <i>Pseudokirchnerella subcapitata</i>	0.25	---
Water - (7732-18-5)	---	---	---	---	---
Terpineol - (8000-41-7)	---	---	---	---	---

### 12.2. Persistence and degradability

There is no data available on the preparation itself.

### 12.3. Bioaccumulative potential

No available information

### 12.4. Mobility in soil

No available information

### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

## 12.6 Endocrine disrupting properties

This product contains no endocrine disrupting chemicals.

## 12.7. Other adverse effects

No available information

# Section 13. Disposal considerations

## 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

# Section 14. Transport information

	ADR/RID	IMO / IMDG (Ocean Transportation)	ICAO/IATA
<b>14.1. UN number</b>	Not Applicable	Not Regulated	Not Regulated
<b>14.2. UN proper shipping name</b>	Not Regulated	Not Regulated	Not Regulated
<b>14.3. Transport hazard class(es)</b>	<b>DOT Hazard Class:</b> Not Applicable <b>Sub Class:</b> Not Applicable	<b>IMDG:</b> Not Applicable <b>Sub Class:</b> Not Applicable	<b>Air class:</b> Not Applicable <b>Sub Class:</b> Not Applicable
<b>14.4. Packing group</b>	Not Applicable	Not Applicable	Not Applicable
<b>14.5. Environmental hazards</b>	Marine Pollutant: No;		
<b>14.6. Special precautions for user</b>	No available information		
<b>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not Applicable		

## Section 15. Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU Legislation

REGULATION (EU) 2020/878 amending Regulations EU 2015/830 and (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). REGULATION (EC) 1272/2008 on the classification, labeling and packaging of substances and mixtures (CLP).

#### National Legislation

None noted.

### 15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

## Section 16. Other information

**Revision Date**            **02-May-2023**

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders. The full text of the phrases appearing in section 3 is:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

Note :

1. This test report supersedes the previous document bearing the report number ETN23400019, the report ETN23400019 was voided.

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