

# Safety Data Sheet (SDS)

**Prepared For:**

Mirrorvana Inc.

79 Raymerville Dr Markham, Ontario, L3P 4J3, Canada

**Product Name:** Anti-Fog Spray

**Model:** MV1P7AFS

**Prepared By:**

Shenzhen TCT Testing Technology Co., Ltd.

2101,2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Street,  
Bao'an District, Shenzhen

**No.:**

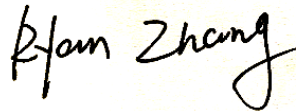
TCT220520W001

Checked by



Justin

Approved by



Ryan Zhang  
Technical Manager



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## 1 Identification of the chemical and supplier

### Product identifier

Product Name	Anti-Fog Spray ( liquid part )
Cat No.	Not applicable
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

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

Relevant identified uses	Please consult manufacturer.
Uses advised against	Cleaning agent

### Details of the supplier of the Safety Data Sheet

Name of the company	Mirrorvana Inc.
Address of the company	79 Raymerville Dr Markham, Ontario, L3P 4J3, Canada
Post code	—
Telephone number	+1 9059031921
Fax number	—
E-mail address	support@mirrorvana.com

### Emergency phone number

Emergency phone number	+1 9059031921
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## 2 Hazards identification

### Hazard classification according to GHS

Hazard classification according to GHS	According to GHS system (9th revised edition), not classified as a hazardous chemical.
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### Label elements

Hazard pictograms	Not applicable
Signal word	<b>Not applicable</b>

### Hazard statements

Hazard statements	Not applicable
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### Precautionary statements

#### ◆ Prevention

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<b>Prevention</b>	Not applicable
◆ Response	
<b>Response</b>	Not applicable
◆ Storage	
<b>Storage</b>	Not applicable
◆ Disposal	
<b>Disposal</b>	Not applicable

### Hazard description

◆ Physical and chemical hazards	
	No information available
◆ Health hazards	
<b>Inhaled</b>	Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.
<b>Ingestion</b>	Accidental ingestion of the product may be harmful to the health of the individual.
<b>Skin Contact</b>	Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.
<b>Eye</b>	This product may cause temporary discomfort following direct contact with the eye.
◆ Environmental hazards	
	Please refer to 12th chapter of SDS.

### 3 Composition/information on ingredients

Component	Cas No.	EC No.	Concentration (weight percent, %)
Isopropanol	67-63-0	200-661-7	0.5
Sodium decyl diphenyl ether disulfonate	36445-71-3	253-040-8	0.8
Water	7732-18-5	231-791-2	98.7

### 4 First aid measures

#### Description of first aid measures

<b>General advice</b>	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Skin contact</b>	Take off contaminated clothing and shoes immediately. Wash off with plenty of

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	soap and water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b>Inhalation</b>	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
<b>Protecting of first-aiders</b>	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

### | Most important symptoms and effects, both acute and delayed

1	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.
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### | Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

## 5 Firefighting measures

### | Extinguishing media

<b>Suitable extinguishing media</b>	Use extinguishing media suitable for surrounding area.
<b>Unsuitable extinguishing media</b>	There is no restriction on the type of extinguisher which may be used.

### | Specific hazards arising from the substance or mixture

1	Development of hazardous combustion gases or vapor possible in the event of fire.
2	May expansion or decompose explosively when heated or involved in fire.

### | Advice for firefighters

1	As in any fire, wear self-contained breathing apparatus ( MSHA/NIOSH approved or equivalent) and full protective gear.
2	Fight fire from a safe distance, with adequate cover.
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.

## 6 Accidental release measures

### | Personal precautions, protective equipment and emergency procedures

1	Use personal protective equipment,do not breathe gas/mist/vapour/spray.
2	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
3	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### | Environmental precautions

1	Prevent further leakage or spillage if safe to do so.
2	Discharge into the environment must be avoided.

### | Methods and materials for containment and cleaning up

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1	Cut off the source of the leak as much as possible.
2	Keep leaks in a ventilated place.
3	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
4	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
5	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.

## 7 Handling and storage

### Precautions for handling

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes.
4	Keep away from heat/sparks/open flames/ hot surfaces.

### Precautions for storage

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.

## 8 Exposure controls/personal protection

### Control parameters

#### Occupational Exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Isopropanol 67-63-0	USA - OSHA	400	980	-	-
	South Korea	200	480	400	980
	Ireland	200	-	400	-
	Germany (AGS)	200	500	400	1000
	Denmark	200	490	400	980
	Australia	400	983	500	1230

#### Biological limit values

<b>Biological limit values</b>	No relevant regulations
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#### Monitoring methods


1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
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2 | GBZ/T 300 series standard Determination of toxic substances in workplace air.

### Engineering controls

- |   |  |
|---|--|
| 1 | Ensure adequate ventilation, especially in confined areas.                             |
| 2 | Ensure that eyewash stations and safety showers are close to the workstation location. |
| 3 | Use explosion-proof electrical/ventilating/lighting/equipment.                         |
| 4 | Set up emergency exit and necessary risk-elimination area.                             |

### Personal protection equipment

General requirement	
Eye protection	In general situation, eye protection is not needed. In the production process, when contacting with vapour or dust, tightly fitting safety goggles.
Hand protection	In general situation, hand protection is not needed.
Respiratory protection	In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, wear dust proof mask or gas defence mask.
Skin and body protection	In general situation, skin and body protection are not needed.

## 9 Physical and chemical properties

### Physical and chemical properties

Appearance	Transparent Liquid
Odor	No special odor
Odor threshold	No information available
pH	6~8
Melting point/freezing point(°C)	< 0
Initial boiling point and boiling range(°C)	> 35
Flash point(Closed cup,°C)	The flash point above 93
Evaporation rate	No information available
Flammability	Not applicable
Upper/lower explosive limits[% (v/v)]	Upper limit : 12 ( Isopropanol ) ; Lower limit : No information available
Vapor pressure	4.4 ( 20°C, Isopropanol)
Relative vapour density(Air = 1)	2.1
Relative density(Water=1)	1±0.1(25°C)
Solubility(mg/L)	Miscible with water
n-octanol/water	0.05 ( Isopropanol )

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partition coefficient	
Auto-ignition temperature(°C)	456 ( Isopropanol )
Decomposition temperature(°C)	No information available
Kinematic viscosity	0.9±0.1(22°C)
Particle characteristics	Not applicable

## 10 Stability and reactivity

### | Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen. In contact with oxidants causes severe reactions, and may cause a fire or explosion.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide. Oxidants, alkali metals, alkaline earth metals and aluminum.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11 Toxicological information

### | Acute toxicity

Component	Cas No.	LD <sub>50</sub> (oral)	LD <sub>50</sub> (Dermal)	LC50(inhalation,4h)
Isopropanol	67-63-0	5045mg/kg(Rat)	12800mg/kg(Rabbit)	No information available

### | Carcinogenicity

ID	Cas No.	Component	IARC	NTP
1	67-63-0	Isopropanol	Category 3	Not Listed
2	36445-71-3	Sodium decyl diphenyl ether disulfonate	Not Listed	Not Listed
3	7732-18-5	Water	Not Listed	Not Listed

### | Others

Anti-Fog Spray ( liquid part )	
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
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met

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<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met
<b>STOT-single exposure</b>	Based on available data, the classification criteria are not met
<b>STOT-repeated exposure</b>	Based on available data, the classification criteria are not met
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met
<b>Reproductive toxicity(additional)</b>	Based on available data, the classification criteria are not met

## 12 Ecological information

### Acute aquatic toxicity

Component	Cas No.	Fish	Crustaceans	Algae
Isopropanol	67-63-0	LC <sub>50</sub> : 9640mg/L (96h)(Fish)	EC <sub>50</sub> : > 1000mg/L (48h)	> 1000mg/L ( 72h )

### Chronic aquatic toxicity

Component	Cas No.	Fish	Crustaceans	Algae
Isopropanol	67-63-0	No information available	NOEC : > 100mg/L	NOEC : > 100mg/L

### Persistence and degradability

Component	Cas No.	Persistence (water/soil)	Persistence (air)
Water	7732-18-5	Low	Low

### Bioaccumulative potential

Component	Cas No.	Bioaccumulative potential	comments
Water	7732-18-5	Low	Log Kow=-1.38

### Mobility in soil

Component	Cas No.	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
Water	7732-18-5	Low	14.3

### Results of PBT and vPvB assessment

Component	Cas No.	Results of PBT and vPvB assessment ( according to (EC) No 1907/2006)
Isopropanol	67-63-0	Not PBT/vPvB



## 13 Disposal considerations

### Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

## 14 Transport information

### Label and Mark

Transporting Label	Not applicable
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### IMDG-CODE

IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### ICAO/IATA-DGR

ICAO/IATA-DGR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### UN-ADR

UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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## 15 Regulatory information

### International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AIIC	ENCS
Water	√	√	√	√	√	√	√	√	√
Sodium decyl diphenyl ether disulfonate	√	√	√	√	√	√	√	√	√
Isopropanol	√	√	√	√	√	√	√	√	√

【EINECS】 European Inventory of Existing Commercial Chemical Substances

【TSCA】 United States Toxic Substances Control Act Inventory

【DSL】 Canadian Domestic Substances List

【IECSC】 China Inventory of Existing Chemical Substances

【NZIoC】 New Zealand Inventory of Chemicals

【PICCS】 Philippines Inventory of Chemicals and Chemical Substances

【KECI】 Korea Existing Chemicals Inventory

【AIIC】 Australia. Inventory of Industrial Chemicals (AIIC)

【ENCS】 Japan Inventory of Existing & New Chemical Substances

#### Note

"√" Indicates that the substance included in the regulations  
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"x" That no data or included in the regulations

**16** Others**Information on revision**

Creation Date	2022/05/31
Revision Date	2022/06/15
Reason for revision	-

**Reference**

- [1]IPCS:The International Chemical Safety Cards (ICSC) ,website: <http://www.ilo.org/dyn/icsc/showcard.home>.
- [2]IARC , website: <http://www.iarc.fr/>.
- [3]OECD: The Global Portal to Information on Chemical Substances, website:  
[http://www.echemportal.org/echemportal/index?pageID=0&request\\_locale=en](http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en).
- [4]CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.
- [5]NLM:ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.
- [6]EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.
- [7]U.S. Department of Transportation:ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.
- [8]Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

**Abbreviations and acronyms****CAS** –Chemical Abstracts Service**PC-STEL**- Short term exposure limit**DNEL** - Derived No Effect Level**RPE** - Respiratory Protective Equipment**LC<sub>50</sub>** - Lethal Concentration 50%**NOEC** -No Observed Effect Concentration**PBT** - Persistent, Bioaccumulative, Toxic**BCF** - Bioconcentration factor (BCF)**IMDG**-International Maritime Dangerous Goods**UN**-The United Nations**NFPA**-National Fire Protection Association**CMR** - Carcinogens, mutagens or substances toxic to reproduction**PC-TWA** - Time Weighted Average**IARC** - International Agency for Research on Cancer**PNEC** –Predicted No Effect Concentration**LD<sub>50</sub>** - Lethal Dose 50%**EC<sub>50</sub>** - Effective Concentration 50%**POW** - Partition coefficient Octanol:Water**vPvB** - very Persistent, very Bioaccumulative**ICAO/IATA**-International Civil Aviation Organization/International Air Transportation Association**ACGIH**-American Conference of Governmental Industrial Hygienists**OECD**-Organization for Economic Co-operation and Development**Disclaimer**

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 9th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However,

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