



## SAFETY DATA SHEET

### HYCOLIN PROFESSIONAL ANTIVIRAL MINI FOGGER

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

**Product name** HYCOLIN PROFESSIONAL ANTIVIRAL MINI FOGGER  
**Product number** 800-499-0020 V9  
**Container size** 100mL

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

**Identified uses** Disinfectant.

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

**Supplier** MIRIUS™  
 A Coventry Group Company  
 Woodhams Road, Siskin Drive,  
 Coventry, England, CV3 4FX  
 www.mirius.com  
 info@mirius.com  
 +442476639739

**Contact person** For content of safety data sheet., sds@mirius.com

##### 1.4. Emergency telephone number

**Emergency telephone** +44 (0) 1865407333 (Strictly for emergencies only: incidents involving damage to human health and/or the environment)

**National emergency telephone number** In case of a medical emergency following exposure to a chemical call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

**Physical hazards** Aerosol 1 - H222, H229  
**Health hazards** Eye Irrit. 2 - H319 STOT SE 3 - H336  
**Environmental hazards** Not Classified

**Classification (67/548/EEC or 1999/45/EC)** -

##### 2.2. Label elements

###### Hazard pictograms



**Signal word** Danger

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<b>Hazard statements</b>	H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
<b>Precautionary statements</b>	P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P251 Do not pierce or burn, even after use. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
<b>Contains</b>	ETHANOL, PROPAN-2-OL, METHANOL
<b>Supplementary precautionary statements</b>	P211 Do not spray on an open flame or other ignition source. P261 Avoid breathing spray. P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTRE/doctor if you feel unwell. P337+P313 If eye irritation persists: Get medical advice/ attention. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/ container in accordance with national regulations.

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>ETHANOL</b>		<b>30-60%</b>
CAS number: 64-17-5	EC number: 200-578-6	REACH registration number: 01-2119457610-43-XXXX
<b>Classification</b>		
Flam. Liq. 2 - H225 Eye Irrit. 2 - H319		
<b>PROPAN-2-OL</b>		<b>30-60%</b>
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 01-2119457558-25-XXXX
<b>Classification</b>		
Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		

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<b>PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS</b>		<b>10-30%</b>
CAS number: 68476-85-7	EC number: 270-704-2	REACH registration number: 01-2119485911-31-XXXX
<b>Classification</b> Flam. Gas 1 - H220		
<b>METHANOL</b>		<b>&lt;1%</b>
CAS number: 67-56-1	EC number: 200-659-6	REACH registration number: 01-2119433307-44-XXXX
<b>Classification</b> Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370	<b>Classification (67/548/EEC or 1999/45/EC)</b> F;R11 T;R23/24/25,R39/23/24/25	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Inhalation</b>	Move affected person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep affected person warm and at rest. Get medical attention immediately.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention.
<b>Skin contact</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

<b>Inhalation</b>	Gas or vapour may irritate the respiratory system. May cause discomfort. Coughing, chest tightness, feeling of chest pressure.
<b>Ingestion</b>	May irritate the mouth, throat and stomach.
<b>Skin contact</b>	May cause irritation. Redness.
<b>Eye contact</b>	May cause eye irritation. Redness. Profuse watering of the eyes.

#### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Specific treatments</b>	Treat symptomatically. Provide eyewash station.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Use fire-extinguishing media suitable for the surrounding fire. Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.
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### 5.2. Special hazards arising from the substance or mixture

**Specific hazards** Extremely flammable aerosol. Containers can burst violently or explode when heated, due to excessive pressure build-up. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Wear appropriate clothing to prevent any possibility of skin contact.

## SECTION 6: Accidental release measures

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

**Personal precautions** Avoid inhalation of vapours and contact with skin and eyes. For personal protection, see Section 8. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. No smoking, sparks, flames or other sources of ignition near spillage.

### 6.2. Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground.

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

**Methods for cleaning up** Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Leave small quantities to evaporate, if safe to do so. Absorb in vermiculite, dry sand or earth and place into containers.

### 6.4. Reference to other sections

**Reference to other sections** See Section 1 for emergency contact information. For personal protection, see Section 8. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Keep away from heat, sparks and open flame. Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level.

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

**Storage precautions** Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Store in tightly-closed, original container in a dry, cool and well-ventilated place.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### **ETHANOL**

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m<sup>3</sup>

##### **PROPAN-2-OL**

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m<sup>3</sup>

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### PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m<sup>3</sup>

### METHANOL

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m<sup>3</sup>

Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

**Ingredient comments**                      WEL = Workplace Exposure Limits

#### ETHANOL (CAS: 64-17-5)

<b>DNEL</b>	<p>Workers - Inhalation; Long term systemic effects: 950 mg/m<sup>3</sup></p> <p>Workers - Inhalation; Short term local effects: 1900 mg/m<sup>3</sup></p> <p>Workers - Dermal; Long term systemic effects: 343 mg/kg</p> <p>General population - Inhalation; Long term systemic effects: 114 mg/m<sup>3</sup></p> <p>General population - Inhalation; Short term local effects: 950 mg/m<sup>3</sup></p> <p>General population - Dermal; Long term systemic effects: 206 mg/kg/day</p> <p>General population - Oral; Long term systemic effects: 87 mg/kg/day</p>
<b>PNEC</b>	<p>- Fresh water; 0.96 mg/l</p> <p>- marine water; 0.79 mg/l</p> <p>- Intermittent release; 2.75 mg/l</p> <p>- STP; 580 mg/l</p> <p>- Sediment (Freshwater); 3.6 mg/kg</p> <p>- Sediment (Marinewater); 2.9 mg/kg</p> <p>- Soil; 0.63 mg/kg</p>

#### PROPAN-2-OL (CAS: 67-63-0)

<b>DNEL</b>	<p>Workers - Inhalation; Long term systemic effects: 500 mg/m<sup>3</sup></p> <p>Workers - Dermal; Long term systemic effects: 888 mg/kg</p> <p>General population - Inhalation; Long term systemic effects: 89 mg/m<sup>3</sup></p> <p>General population - Dermal; Long term systemic effects: 319 mg/kg</p> <p>General population - Oral; Long term systemic effects: 26 mg/kg</p>
<b>PNEC</b>	<p>- Fresh water; 140.9 mg/l</p> <p>- marine water; 140.9 mg/l</p> <p>- Intermittent release; 140.9 mg/l</p> <p>- STP; 2251 mg/l</p> <p>- Sediment (Freshwater); 552 mg/kg</p> <p>- Sediment (Marinewater); 552 mg/kg</p> <p>- Soil; 28 mg/kg</p>

#### METHANOL (CAS: 67-56-1)

<b>DNEL</b>	<p>Workers - Inhalation; Long term systemic effects: 260 mg/m<sup>3</sup></p> <p>Workers - Inhalation; Short term systemic effects: 260 mg/m<sup>3</sup></p> <p>Workers - Inhalation; Long term local effects: 260 mg/m<sup>3</sup></p> <p>Workers - Inhalation; Short term local effects: 260 mg/m<sup>3</sup></p>
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### 8.2. Exposure controls

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### Protective equipment



#### Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

#### Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

#### Hygiene measures

Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

#### Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible.

### SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Aerosol.
<b>Colour</b>	Colourless.
<b>Odour</b>	Perfume.
<b>Odour threshold</b>	No information available.
<b>pH</b>	No information available.
<b>Melting point</b>	Not determined.
<b>Initial boiling point and range</b>	No information available.
<b>Flash point</b>	<23°C
<b>Evaporation rate</b>	No information available.
<b>Flammability (solid, gas)</b>	Extremely flammable aerosol.
<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Vapour pressure</b>	No information available.
<b>Vapour density</b>	No information available.
<b>Relative density</b>	No information available.
<b>Solubility(ies)</b>	Not relevant.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	No information available.
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	Not available.

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<b>Explosive properties</b>	No information available.
<b>Explosive under the influence of a flame</b>	No data available.
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.

### 9.2. Other information

<b>Other information</b>	None.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	Stable under the prescribed storage conditions.
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### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, no hazardous reactions will occur.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid heat, flames and other sources of ignition. Avoid contact with the following materials: Strong oxidising agents. Strong alkalis. Strong mineral acids. Keep at temperature not exceeding 50°C.
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### 10.5. Incompatible materials

<b>Materials to avoid</b>	Strong oxidising agents. Strong acids.
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### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ).
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Toxicological effects</b>	Information given is based on data of the components and of similar products.
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<b>Other health effects</b>	Does not contain any substances known to be carcinogenic.
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#### Acute toxicity - oral

<b>Notes (oral LD<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
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<b>ATE oral (mg/kg)</b>	17,555.56
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#### Acute toxicity - dermal

<b>Notes (dermal LD<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
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<b>ATE dermal (mg/kg)</b>	33,333.33
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#### Acute toxicity - inhalation

<b>Notes (inhalation LC<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
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<b>ATE inhalation (dusts/mists mg/l)</b>	55.56
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#### Skin corrosion/irritation

<b>Skin corrosion/irritation</b>	Not classified. Based on available data the classification criteria are not met.
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### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye irritation.

### Respiratory sensitisation

**Respiratory sensitisation** Not sensitising. Based on available data the classification criteria are not met.

### Skin sensitisation

**Skin sensitisation** Not classified. Based on available data the classification criteria are not met.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Does not contain any substances known to be mutagenic.

### Carcinogenicity

**Carcinogenicity** Does not contain any substances known to be carcinogenic.

### Reproductive toxicity

**Reproductive toxicity - fertility** Does not contain any substances known to be toxic to reproduction.

### Specific target organ toxicity - single exposure

**STOT - single exposure** May cause drowsiness or dizziness.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

### Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

### **Inhalation**

Gas or vapour may irritate the respiratory system. May cause discomfort. Coughing, chest tightness, feeling of chest pressure.

### **Ingestion**

May irritate the mouth, throat and stomach.

### **Skin contact**

May cause irritation. Redness.

### **Eye contact**

May cause irritation. Redness. Profuse watering of the eyes.

## SECTION 12: Ecological information

### **Ecotoxicity**

Not regarded as dangerous for the environment.

### 12.1. Toxicity

#### **Toxicity**

Not considered toxic to fish.

### 12.2. Persistence and degradability

#### **Biodegradation**

The product is biodegradable.

### 12.3. Bioaccumulative potential

#### **Bioaccumulative potential**

No potential for bioaccumulation.

#### **Partition coefficient**

No information available.

### 12.4. Mobility in soil

#### **Mobility**

No data available.

### 12.5. Results of PBT and vPvB assessment

#### **Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.



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### 12.6. Other adverse effects

Other adverse effects                      None known.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**Disposal methods**                      Empty containers must not be punctured or incinerated because of the risk of an explosion. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### SECTION 14: Transport information

#### 14.1. UN number

UN No. (ADR/RID)                      1950

UN No. (IMDG)                          1950

UN No. (ICAO)                          1950

UN No. (ADN)                            1950

#### 14.2. UN proper shipping name

Proper shipping name                  AEROSOLS  
(ADR/RID)

Proper shipping name (IMDG)        AEROSOLS

Proper shipping name (ICAO)        AEROSOLS

Proper shipping name (ADN)        AEROSOLS

#### 14.3. Transport hazard class(es)

ADR/RID class                            2.1

ADR/RID classification code        5F

ADR/RID label                            2.1

IMDG class                                2.1

ICAO class/division                  2.1

ADN class                                 2.1

#### Transport labels



#### 14.4. Packing group

ADR/RID packing group                None

IMDG packing group                    None

ICAO packing group                    None

ADN packing group                      None

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant  
No.

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### 14.6. Special precautions for user

<b>EmS</b>	F-D, S-U
<b>ADR transport category</b>	2
<b>Tunnel restriction code</b>	(D)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## SECTION 15: Regulatory information

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

<b>National regulations</b>	The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824). Control of Substances Hazardous to Health Regulations 2002 (as amended). EH40/2005 Workplace exposure limits.
<b>EU legislation</b>	Commission Regulation (EU) No 2015/830 of 28 May 2015. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
<b>Guidance</b>	Workplace Exposure Limits EH40.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. CAS: Chemical Abstracts Service. DNEL: Derived No Effect Level. IMDG: International Maritime Dangerous Goods. PBT: Persistent, Bioaccumulative and Toxic substance. PNEC: Predicted No Effect Concentration. SVHC: Substances of Very High Concern. vPvB: Very Persistent and Very Bioaccumulative.
<b>Revision date</b>	18/08/2020
<b>Revision</b>	1
<b>SDS number</b>	22286

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### **Hazard statements in full**

H220 Extremely flammable gas.  
H222 Extremely flammable aerosol.  
H225 Highly flammable liquid and vapour.  
H229 Pressurised container: may burst if heated.  
H301 Toxic if swallowed.  
H311 Toxic in contact with skin.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
H336 May cause drowsiness or dizziness.  
H370 Causes damage to organs .