SAFETY DATA SHEET
HYCOLIN ANTIVIRAL QUICK SPRAY SURFACE CLEANER

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

1.1. Product identifier
Product name: HYCOLIN ANTIVIRAL QUICK SPRAY SURFACE CLEANER
Product number: 800-277-0610
Container size: 300mL

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Disinfecant.

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

1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical hazards: Aerosol 1 - H222, H229
Health hazards: Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319
Environmental hazards: Not Classified

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

2.2. Label elements
Hazard pictograms

Signal word: Danger
Hazard statements: H222 Extremely flammable aerosol.
H229 Pressurised container: may burst if heated.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
HYCOLIN ANTIVIRAL QUICK SPRAY SURFACE CLEANER

Precautionary statements

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.
P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Supplementary precautionary statements

P211 Do not spray on an open flame or other ignition source.
P264 Wash contaminated skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P321 Specific treatment (see medical advice on this label).
P330 Rinse mouth.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with national regulations.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>BUTANE</th>
<th>30-60%</th>
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<td>Press. Gas</td>
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<td>Classification (67/548/EEC or 1999/45/EC)</td>
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<tr>
<td>F+;R12</td>
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<table>
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<tr>
<th>ETHANOL</th>
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<td>EC number: 200-578-6</td>
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<tr>
<td>Flam. Liq. 2 - H225</td>
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<tr>
<td>Eye Irrit. 2 - H319</td>
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<td>REACH registration number: 01-2119457610-43-XXXX</td>
<td></td>
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</tbody>
</table>
**HYCtLIN ANTIvIRAL QUICK SPRay SURFACE CLEANER**

| ALKYL (C12-16) DIMETHYLBENZYL AMMONIUM CHLORIDE (ADBAC/BKC (C12-16))<1%  |
|-----------------------------|-----------------------------|-----------------------------|
| CAS number: 68424-85-1      | EC number: 270-325-2        | REACH registration number: 01-2119965180-41-XXXX |
| M factor (Acute) = 10       | M factor (Chronic) = 1      |

**Classification**
- Acute Tox. 4 - H302
- Skin Corr. 1B - H314
- Eye Dam. 1 - H318
- Aquatic Acute 1 - H400
- Aquatic Chronic 1 - H410

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

**General information**
Move affected person to fresh air at once. Get medical attention if any discomfort continues.

**Inhalation**
Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.

**Ingestion**
Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if any discomfort continues.

**Skin contact**
Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

**Eye contact**
Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. 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

**Ingestion**
Harmful if swallowed.

**Skin contact**
Causes skin irritation.

**Eye contact**
Causes serious eye irritation.

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

**SECTION 5: Firefighting measures**

5.1. Extinguishing media

**Suitable extinguishing media**
Extinguish with the following media: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

**Unsuitable extinguishing media**
Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

**Specific hazards**
Containers can burst violently or explode when heated, due to excessive pressure build-up. Bursting aerosol containers may be propelled from a fire at high speed.

5.3. Advice for firefighters
HYCOLIN ANTIVIRAL QUICK SPRAY SURFACE CLEANER

PROTECTIVE ACTIONS DURING FIREFIGHTING

Containers can burst violently or explode when heated, due to excessive pressure build-up. 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. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Evacuate area. Eliminate all ignition sources if safe to do so. Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions
Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up
Large Spillages: Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb spillage with non-combustible, absorbent material. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Do not allow material to enter confined spaces, due to the risk of explosion. If leakage cannot be stopped, evacuate area. Small Spillages: Leave small quantities to evaporate, if safe to do so. If the product is soluble in water, dilute the spillage with water and mop it up.

6.4. Reference to other sections

Reference to other sections
For waste disposal, see Section 13. For personal protection, see Section 8.

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. Do not pierce or burn, even after use. Empty containers or liners may retain some product residues and hence be potentially hazardous.

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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from food, drink and animal feeding stuffs. Store in tightly-closed, original container in a 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
BUTANE
Long-term exposure limit (8-hour TWA): WEL 600 ppm 1450 mg/m³
Short-term exposure limit (15-minute): WEL 750 ppm 1810 mg/m³
ETHANOL
HYCOLIN ANTIVIRAL QUICK SPRAY SURFACE CLEANER

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³
WEL = Workplace Exposure Limit.

Ingredient comments

ETHANOL (CAS: 64-17-5)

DNEL
Workers - Inhalation; Long term systemic effects: 950 mg/m³
Workers - Inhalation; Short term local effects: 1900 mg/m³
Workers - Dermal; Long term systemic effects: 343 mg/kg
General population - Inhalation; Long term systemic effects: 114 mg/m³
General population - Inhalation; Short term local effects: 950 mg/m³
General population - Dermal; Long term systemic effects: 206 mg/kg/day
General population - Oral; Long term systemic effects: 87 mg/kg/day

PNEC
- Fresh water; 0.96 mg/l
- marine water; 0.79 mg/l
- Intermittent release; 2.75 mg/l
- STP; 580 mg/l
- Sediment (Freshwater); 3.6 mg/kg
- Sediment (Marine water); 2.9 mg/kg
- Soil; 0.63 mg/kg

ALKYL (C12-16) DIMETHYLBENZYL AMMONIUM CHLORIDE (ADBAC/BKC (C12-16)) (CAS: 68424-85-1)

DNEL
Workers - Dermal; Long term systemic effects: 5.7 mg/kg/day
Workers - Inhalation; Long term systemic effects: 3.96 mg/m³
General population - Oral; Long term systemic effects: 3.4 mg/kg/day
General population - Dermal; Long term systemic effects: 3.4 mg/kg/day
General population - Inhalation; Long term systemic effects: 1.64 mg/m³

PNEC
- Fresh water; 0.001 mg/l
- Intermittent release, Fresh water; 0 mg/l
- marine water; 0.001 mg/l
- STP; 0.4 mg/l
- Sediment (Freshwater); 12.27 mg/kg
- Sediment (Marine water); 13.09 mg/kg
- Soil; 7 mg/kg

8.2. Exposure controls

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
No specific requirements are anticipated under normal conditions of use.

Other skin and body protection
Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.
HYCOLUM ANTIVIRAL QUICK SPRAY SURFACE CLEANER

Hygiene measures
Do not smoke in the 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
No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Appearance
Aerosol.

Colour
Not applicable.

Odour
Characteristic.

pH
pH (concentrated solution): 8 +/- 1

Initial boiling point and range
Not determined.

Flash point
Extremely flammable aerosol.

Evaporation rate
Not determined.

Flammability (solid, gas)
Extremely flammable aerosol.

Upper/lower flammability or explosive limits
No information available.

Vapour pressure
4 mbar @ 25°C

Vapour density
Not determined.

Relative density
Not determined.

Solubility(ies)
No information available.

Partition coefficient
No information available.

Auto-ignition temperature
Not determined.

Decomposition Temperature
Not determined.

Viscosity
Not determined.

Explosive properties
No information available.

Explosive under the influence of a flame
No information available.

Oxidising properties
Does not meet the criteria for classification as oxidising.

Comments
Information given is applicable to the product as supplied.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity
Stable under the prescribed storage conditions.

10.2. Chemical stability
Stability
Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions
HYCOLIN ANTIVIRAL QUICK SPRAY SURFACE CLEANER

Possibility of hazardous reactions
Under normal conditions of storage and use, no hazardous reactions will occur.

10.4. Conditions to avoid
Conditions to avoid
Avoid heat, flames and other sources of ignition. Avoid contact with the following materials:

10.5. Incompatible materials
Materials to avoid
Oxidising materials.

10.6. Hazardous decomposition products
Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Toxicological effects
Information given is based on data of the components and of similar products.

Other health effects
Does not contain any substances known to be carcinogenic.

Acute toxicity - oral
Notes (oral LD₅₀)
Harmful if swallowed.
ATE oral (mg/kg) 500.0

Acute toxicity - dermal
Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation
Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/irritation
Causes serious eye irritation.

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

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 Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure
STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.
HYCOLIN ANTIVIRAL QUICK SPRAY SURFACE CLEANER

Acute and chronic health hazards
Inhalation May cause respiratory system irritation. Prolonged and repeated contact with solvents over a long period may lead to permanent health problems. Prolonged or repeated exposure to vapours in high concentrations may cause the following adverse effects: Nausea, vomiting. Headache. Prolonged inhalation of high concentrations may damage respiratory system. SKIN CONTACT. Product has a defatting effect on skin. May cause skin irritation/eczema. EYE CONTACT. Irritating to eyes.

Route of exposure
Inhalation

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
Persistence and degradability No data available.

12.3. Bioaccumulative potential
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 No data available.

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. Empty containers or liners may retain some product residues and hence be potentially hazardous. 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 (ADR/RID) AEROSOLS
Proper shipping name (IMDG) AEROSOLS
HYCOSOL ANTIVIRAL QUICK SPRAY SURFACE CLEANER

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.

14.6. Special precautions for user
EmS F-D, S-U
ADR transport category 2
Tunnel restriction code (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
Guidance Workplace Exposure Limits EH40.
HYCOLIN ANTIVIRAL QUICK SPRAY SURFACE CLEANER

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
- CAS: Chemical Abstracts Service.
- DNEL: Derived No Effect Level.
- PBT: Persistent, Bioaccumulative and Toxic substance.
- PNEC: Predicted No Effect Concentration.
- SVHC: Substances of Very High Concern.
- vPvB: Very Persistent and Very Bioaccumulative.

Revision date: 26/06/2020
Revision: 1
SDS number: 22255

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.
- 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.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.