SAFETY DATA SHEET
HYCOLIN ANTIVIRAL SURFACE CLEANER

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

1.1. Product identifier
Product name
HYCOLIN ANTIVIRAL SURFACE CLEANER
Product number
800-277-0600
Container size
750mL

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses
Detergent. Disinfecting and cleaning.

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
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
Not Classified
Health hazards
Not Classified
Environmental hazards
Not Classified

2.2. Label elements
Hazard statements
NC Not Classified

Precautionary statements
P264 Wash contaminated skin thoroughly after handling.
P262 Do not get in eyes, on skin, or on clothing.
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.
P501 Dispose of contents/container in accordance with local regulations.
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Biocide Labelling
This product contains substances with biocidal properties. Contains active substance: Alkyl (C12-16) dimethyl/benzyl ammonium chloride (ADBAC/BKC (C12-16)), 0.125g/100g

Detergent labelling
< 5% disinfectants

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
Composition comments
None of the ingredients are required to be listed.

SECTION 4: First aid measures

4.1. Description of first aid measures
Inhalation
Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion
Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.

Skin contact
Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention if irritation persists after washing.

Eye contact
Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

4.2. Most important symptoms and effects, both acute and delayed
Skin contact
Prolonged contact may cause redness, irritation and dry skin.

Eye contact
May cause temporary eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed
Notes for the doctor
No specific recommendations.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media
The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire. Foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture
Hazardous combustion products
Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Toxic gases or vapours.

5.3. Advice for firefighters
Protective actions during firefighting
Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions
For personal protection, see Section 8. In case of spills, beware of slippery floors and surfaces.
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6.2. Environmental precautions

Environmental precautions Collect and dispose of spillage as indicated in Section 13. Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if safe to do so. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Provide adequate ventilation. Avoid contact with skin and eyes.

Advice on general occupational hygiene No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products. Wash at the end of each work shift and before eating, smoking and using the toilet.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions 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

Ingredient comments None of the ingredients are required to be listed.

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 (Marinewater); 13.09 mg/kg
- Soil; 7 mg/kg

8.2. Exposure controls

Protective equipment
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<table>
<thead>
<tr>
<th>Appropriate engineering controls</th>
<th>Provide adequate ventilation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye/face protection</td>
<td>No specific eye protection required during normal use.</td>
</tr>
<tr>
<td>Hand protection</td>
<td>For users with sensitive skin, it is recommended that suitable protective gloves are worn.</td>
</tr>
<tr>
<td>Other skin and body protection</td>
<td>Wear appropriate clothing to prevent repeated or prolonged skin contact. Use appropriate skin cream to prevent drying of skin.</td>
</tr>
<tr>
<td>Hygiene measures</td>
<td>When using do not eat, drink or smoke. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Use appropriate skin cream to prevent drying of skin.</td>
</tr>
<tr>
<td>Respiratory protection</td>
<td>Respiratory protection not required.</td>
</tr>
<tr>
<td>Environmental exposure controls</td>
<td>Avoid releasing into the environment.</td>
</tr>
</tbody>
</table>

## SECTION 9: Physical and chemical properties

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>Odourless</td>
</tr>
<tr>
<td>pH</td>
<td>pH (concentrated solution): 10.0 typically</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.000 typically @ 20°C</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Soluble in water.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>There are no chemical groups present in the product that are associated with explosive properties.</td>
</tr>
<tr>
<td>Explosive under the influence of a flame</td>
<td>Not considered to be explosive.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.</td>
</tr>
</tbody>
</table>
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Comments
Information given is applicable to the product as supplied.

9.2. Other information
Other information
Not relevant.

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity
There are no known reactivity hazards associated with this product.

10.2. Chemical stability
Stability
Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions
Not applicable.

10.4. Conditions to avoid
Conditions to avoid
Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials
Materials to avoid
No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products
Hazardous decomposition products
Does not decompose when used and stored as recommended.

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.

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

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

Serious eye damage/irritation
Based on available data the classification criteria are not met.

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
HYCOLIN ANTIVIRAL SURFACE CLEANER

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.

General information
This product has low toxicity.

Inhalation
No specific health hazards known.

Ingestion
May cause irritation. Symptoms following overexposure may include the following: Stomach pain. Nausea, vomiting. Diarrhoea.

Skin contact
Skin irritation should not occur when used as recommended. Repeated exposure may cause skin dryness or cracking.

Eye contact
May cause temporary eye irritation.

SECTION 12: Ecological Information

Ecotoxicity
There are no data on the ecotoxicity of this product. Not regarded as dangerous for the environment.

12.1. Toxicity
Toxicity
Not considered toxic to fish.

12.2. Persistence and degradability
Persistence and degradability
There are no data on the degradability of this product. The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request, or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential
Bioaccumulative potential
No data available on bioaccumulation.

Partition coefficient
No information available.

12.4. Mobility in soil
Mobility
The product is water-soluble and may spread in water systems.

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.

12.6. Other adverse effects
Other adverse effects
None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
General information
The generation of waste should be minimised or avoided wherever possible.
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Disposal methods
The packaging must be empty (drop-free when inverted). Wash with plenty of water. Waste packaging should be collected for reuse or recycling. Refer to manufacturer/supplier for information on recovery/recycling. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General
The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number
Not applicable.

14.2. UN proper shipping name
Not applicable.

14.3. Transport hazard class(es)
No transport warning sign required.

14.4. Packing group
Not applicable.

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user
Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

National regulations
Control of Substances Hazardous to Health Regulations 2002 (as amended).
EH40/2005 Workplace exposure limits.

EU legislation
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15.2. Chemical safety assessment

Currently we do not have information from our suppliers about this.

SECTION 16: Other information

<table>
<thead>
<tr>
<th>Abbreviations and acronyms used in the safety data sheet</th>
<th>PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.</th>
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</thead>
<tbody>
<tr>
<td>Revision comments</td>
<td>NOTE: Lines within the margin indicate significant changes from the previous revision.</td>
</tr>
<tr>
<td>Revision date</td>
<td>10/03/2020</td>
</tr>
<tr>
<td>Revision</td>
<td>1</td>
</tr>
<tr>
<td>SDS number</td>
<td>21753</td>
</tr>
<tr>
<td>Risk phrases in full</td>
<td>Not classified.</td>
</tr>
</tbody>
</table>

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