SAFETY DATA SHEET
HYCOLIN ANTIVIRAL KITCHEN CLEANER

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

1.1. Product identifier

Product name          HYCOLIN ANTIVIRAL KITCHEN CLEANER
Product number        800-277-0608
Container size        750mL

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

Identified uses       Detergent. 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      Not Classified
Health hazards         Eye Irrit. 2 - H319
Environmental hazards  Not Classified

2.2. Label elements

Hazard pictograms

Signal word           Warning
Hazard statements     H319 Causes serious eye irritation.
# HYCOLIN ANTIVIRAL KITCHEN CLEANER

## Precautionary statements
- P102 Keep out of reach of children.
- P264 Wash contaminated skin thoroughly after handling.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- 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.

## Biocide Labelling
This product contains substances with biocidal properties., Read attached instructions before use., Contains active substance: Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-16)), 0.125%

## Detergent labelling
< 5% disinfectants, < 5% non-ionic surfactants

## 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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
<th>CAS number</th>
<th>EC number</th>
<th>REACH registration number</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES</td>
<td>1-5%</td>
<td>68515-73-1</td>
<td>500-220-1</td>
<td>01-2119488530-36-XXXX</td>
<td>Eye Dam. 1 - H318</td>
</tr>
<tr>
<td>2-(2-BUTOXYETHOXY)ETHANOL</td>
<td>&lt;1%</td>
<td>112-34-5</td>
<td>203-961-6</td>
<td>01-2119475104-44-xxxx</td>
<td>Eye Irrit. 2 - H319</td>
</tr>
<tr>
<td>ALCOHOLS, C12-14, ETHOXYLATED</td>
<td>&lt;1%</td>
<td>68439-50-9</td>
<td>500-213-3</td>
<td>01-2119487984-16-XXXX</td>
<td>Eye Dam. 1 - H318, Aquatic Acute 1 - H400, Aquatic Chronic 3 - H412</td>
</tr>
</tbody>
</table>

M factor (Acute) = 1
HYCOLIN ANTIVIRAL KITCHEN 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
Provide eyewash station.

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 symptoms are severe or persist after washing. Show this Safety Data Sheet to the medical personnel.

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

General information
Provide eyewash station.

Skin contact
Prolonged contact may cause redness, irritation and dry skin.

Eye contact
The product is irritating to eyes and skin. Prolonged or repeated exposure may cause the following adverse effects: Irritation and redness, followed by blurred vision. Corneal damage. Risk of serious damage to eyes.

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
HYCOLIN ANTIVIRAL KITCHEN CLEANER

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
For personal protection, see Section 8. Treat the spilled material according to the instructions in the clean-up section. Take care as floors and other surfaces may become slippery.

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 spilling. Avoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid breathing vapour/spray. Do not mix with other household chemical products. Do not mix with acid.

Advice on general occupational hygiene
Good personal hygiene procedures should be implemented. Do not eat, drink or smoke when using this product. Wash skin thoroughly after handling. Take off contaminated clothing and wash it before reuse. Use appropriate hand lotion to prevent defatting and cracking of skin.

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. Store at room temperature. Keep out of the reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

2-(2-BUTOXYETHOXY)ETHANOL
Long-term exposure limit (8-hour TWA): WEL 10 ppm 67.5 mg/m³
Short-term exposure limit (15-minute): WEL 15 ppm 101.2 mg/m³
WEL = Workplace Exposure Limit.

D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES (CAS: 68515-73-1)
HYCOLIN ANTIVIRAL KITCHEN CLEANER

DNEL
Workers - Inhalation; Long term systemic effects: 420 mg/m³
Workers - Dermal; Long term systemic effects: 595000 mg/kg/day
General population - Inhalation; Long term systemic effects: 124 mg/m³
General population - Dermal; Long term systemic effects: 357000 mg/kg
General population - Oral; Long term systemic effects: 35.7 mg/kg

PNEC
- Fresh water; 0.176 mg/l
- marine water; 0.0176 mg/l
- Intermittent release; 0.27 mg/l
- STP; 560 mg/l
- Sediment (Freshwater); 1.516 mg/l
- Sediment (Marine water); 0.152 mg/l

2-(2-BUTOXYETHOXY)ETHANOL (CAS: 112-34-5)

DNEL
Workers - Inhalation; Long term systemic effects: 67.5 mg/m³
Workers - Inhalation; Long term local effects: 67.5 mg/m³
Workers - Dermal; Long term systemic effects: 20 mg/kg/day
General population - Inhalation; Long term systemic effects: 34 mg/m³
General population - Inhalation; Long term local effects: 34 mg/m³
General population - Inhalation; Short term local effects: 34 mg/m³
General population - Inhalation; Short term local effects: 50.6 mg/m³
General population - Dermal; Long term systemic effects: 10 mg/kg/day
General population - Oral; Long term systemic effects: 1.25 mg/kg/day

PNEC
- Fresh water; 1 mg/l
- marine water; 0.1 mg/l
- Intermittent release; 3.9 mg/l
- STP; 200 mg/l
- Sediment (Freshwater); 4 mg/kg
- Sediment (Marine water); 0.4 mg/kg
- Soil; 0.4 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

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HYCOLIN ANTIVIRAL KITCHEN CLEANER

**Appropriate engineering controls**
Provide adequate ventilation.

**Eye/face protection**
Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.

**Hand protection**
Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC). Rubber (natural, latex). Neoprene. Nitrile rubber. Polyethylene. To protect hands from chemicals, gloves should comply with European Standard EN374.

**Other skin and body protection**
Wear appropriate clothing to prevent repeated or prolonged skin contact. Use appropriate hand lotion to prevent defatting and cracking of skin.

**Hygiene measures**
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.

**Respiratory protection**
Respiratory protection not required.

**Environmental exposure controls**
Avoid releasing into the environment.

### 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><strong>Appearance</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>Colourless. Clear liquid.</td>
</tr>
<tr>
<td><strong>Odour</strong></td>
<td>Unperfumed</td>
</tr>
<tr>
<td><strong>Odour threshold</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>pH (concentrated solution): 10-11.5</td>
</tr>
<tr>
<td><strong>Melting point</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Initial boiling point and range</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Evaporation factor</strong></td>
<td>No information available.</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>1.005-1.015 @ 20°C</td>
</tr>
<tr>
<td><strong>Solubility(ies)</strong></td>
<td>Soluble in water</td>
</tr>
<tr>
<td><strong>Partition coefficient</strong></td>
<td>No information available.</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Decomposition Temperature</strong></td>
<td>Not determined</td>
</tr>
</tbody>
</table>
HYCOLIN ANTIVIRAL KITCHEN CLEANER

Viscosity
Not determined.

Explosive properties
There are no chemical groups present in the product that are associated with explosive properties.

Explosive under the influence of a flame
Not considered to be explosive.

Oxidising properties
There are no chemical groups present in the product that are associated with oxidising properties.

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
No known 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.

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
Skin corrosion/irritation
Not classified. Based on available data the classification criteria are not met.

Serious eye damage/irritation
Serious eye damage/irritation
Causes serious eye irritation.
HYCOLIN ANTIVIRAL KITCHEN CLEANER

**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**  
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.

**Aspiration hazard**  
Not classified.

**General information**  
This product has low toxicity.

**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. Prolonged or repeated exposure may cause the following adverse effects: Irritation. Redness. Dryness and/or cracking. Mild dermatitis, allergic skin rash.

**Eye contact**  
Irritating to eyes. May cause serious eye damage. Severe irritation, burning, tearing and blurred vision. Corneal damage.

**Toxicological information on ingredients.**

<table>
<thead>
<tr>
<th></th>
<th>D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute toxicity - oral</strong></td>
<td></td>
</tr>
<tr>
<td>Acute toxicity oral (LD₅₀ mg/kg)</td>
<td>2,001.0</td>
</tr>
<tr>
<td>Species</td>
<td>Rat</td>
</tr>
<tr>
<td>ATE oral (mg/kg)</td>
<td>2,001.0</td>
</tr>
<tr>
<td><strong>Acute toxicity - dermal</strong></td>
<td></td>
</tr>
<tr>
<td>Acute toxicity dermal (LD₅₀ mg/kg)</td>
<td>2,001.0</td>
</tr>
<tr>
<td>Species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>ATE dermal (mg/kg)</td>
<td>2,001.0</td>
</tr>
<tr>
<td><strong>Skin sensitisation</strong></td>
<td></td>
</tr>
<tr>
<td>Skin sensitisation</td>
<td>Not sensitising. REACH dossier information.</td>
</tr>
<tr>
<td><strong>Germ cell mutagenicity</strong></td>
<td></td>
</tr>
</tbody>
</table>
HYCOLIN ANTIVIRAL KITCHEN CLEANER

Genotoxicity - in vitro
REACH dossier information. Negative.

Genotoxicity - in vivo
REACH dossier information. Negative.

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.

Ecological information on ingredients.

D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES

Acute aquatic toxicity

Acute toxicity - fish
LC₅₀, 96 hours: 100.81 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates
EC₅₀, 48 hours: 101 mg/l, Daphnia magna

Acute toxicity - microorganisms
EC₅₀, 6 hours: >560 mg/l

Chronic aquatic toxicity
NOEC, 21 days: 1 mg/l, Daphnia magna

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.

Ecological information on ingredients.

D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES

Biodegradation
Water - Degradation 100%: 28 days

12.3. Bioaccumulative potential

Bioaccumulative potential
No data available on bioaccumulation.

Partition coefficient
No information available.

Ecological information on ingredients.

D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES

Partition coefficient
log Pow: 1.72 REACH dossier information.

12.4. Mobility in soil

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

Ecological information on ingredients.

D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES
HYCOLIN ANTIVIRAL KITCHEN CLEANER

Henry's law constant 0 Pa m³/mol @ 25°C

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.

Ecological information on ingredients.

D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES

Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

Other adverse effects None known.

Ecological information on ingredients.

D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Do not discharge into drains or watercourses or onto the ground.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Reuse or recycle products wherever possible.

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
HYCOLIN ANTIVIRAL KITCHEN CLEANER

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

National regulations
The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).

EU legislation

Guidance
Workplace Exposure Limits EH40.
ECHA Guidance on the Application of the CLP Criteria.
ECHA Guidance on the compilation of safety data sheets.
COSHH Essentials.

15.2. Chemical safety assessment

No information available.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet
DNEL: Derived No Effect Level.
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.

Revision comments
New revision number applied to comply with Commission Regulation (EU) No 2015/830 Of 28 May 2015’ NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date
02/07/2020

Revision
1

SDS number
22251
HYCOLIN ANTIVIRAL KITCHEN CLEANER

Hazard statements in full

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
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.
H412 Harmful to aquatic life with long lasting effects.