# SAFETY DATA SHEET

HYCOLIN ANTIVIRAL BATHROOM CLEANER


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

### 1.1. Product identifier

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>HYCOLIN ANTIVIRAL BATHROOM CLEANER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product number</strong></td>
<td>800-277-0609</td>
</tr>
<tr>
<td><strong>Container size</strong></td>
<td>750mL</td>
</tr>
<tr>
<td><strong>UFI</strong></td>
<td>UFI: NY2M-1HEE-UP77-K8QT</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th><strong>Supplier</strong></th>
<th>MIRIUS ™</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A Coventry Group Company</td>
</tr>
<tr>
<td></td>
<td>Woodhams Road, Siskin Drive,</td>
</tr>
<tr>
<td></td>
<td>Coventry, England, CV3 4FX</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.mirius.com">www.mirius.com</a></td>
</tr>
<tr>
<td></td>
<td><a href="mailto:info@mirius.com">info@mirius.com</a></td>
</tr>
</tbody>
</table>

| | Coventry Chemicals (Ireland) Limited |
| | 4th Floor |
| | 8-34 Percy Place |
| | Dublin 4 |
| | Ireland |
| | +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) |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

<table>
<thead>
<tr>
<th><strong>Classification (EC 1272/2008)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical hazards</strong></td>
</tr>
<tr>
<td><strong>Health hazards</strong></td>
</tr>
<tr>
<td><strong>Environmental hazards</strong></td>
</tr>
</tbody>
</table>

### 2.2. Label elements
HYCOLIN ANTIVIRAL BATHROOM CLEANER

**Hazard pictograms**

[Image of hazard pictogram]

**Signal word** Warning

**Hazard statements** H319 Causes serious eye irritation.

**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., Contains active substance: Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-16)), 0.125g/100g, Read attached instructions before use.

**Detergent labelling**
- < 5% disinfectants, < 5% non-ionic surfactants, < 5% perfumes, Contains d-LIMONENE

**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><strong>CITRIC ACID ANHYDROUS</strong></th>
<th>1-5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 77-92-9</td>
<td>EC number: 201-069-1</td>
</tr>
<tr>
<td></td>
<td>REACH registration number: 01-2119457026-42-XXXX</td>
</tr>
</tbody>
</table>

**Classification**
- Eye Irrit. 2 - H319

<table>
<thead>
<tr>
<th><strong>D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES</strong></th>
<th>1-5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 68515-73-1</td>
<td>EC number: 500-220-1</td>
</tr>
<tr>
<td></td>
<td>REACH registration number: 01-2119488530-36-XXXX</td>
</tr>
</tbody>
</table>

**Classification**
- Eye Dam. 1 - H318
HYCOLIN ANTIVIRAL BATHROOM 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

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

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 BATHROOM CLEANER

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. 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

CITRIC ACID ANHYDROUS (CAS: 77-92-9)

DNEL
Available hazard data do not support the need for a DNEL to be established for other health effects.
HYCOLIN ANTIVIRAL BATHROOM CLEANER

PNEC
- Fresh water; 0.44 mg/l
- marine water; 0.044 mg/l
- STP; >1000 mg/l
- Sediment (Freshwater); 34.6 mg/kg
- Sediment (Marine water); 3.46 mg/kg
- Soil; 33.1

D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES (CAS: 68515-73-1)

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

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

LIMONENE (CAS: 5989-27-5)

DNEL
Workers - Inhalation; Long term systemic effects: 66.7 mg/m³
Workers - Dermal; Long term systemic effects: 9.5 mg/kg/day
General population - Inhalation; Long term systemic effects: 16.6 mg/m³
General population - Dermal; Long term systemic effects: 4.8 mg/kg/day
General population - Oral; Long term systemic effects: 4.8 mg/kg/day

PNEC
- Fresh water; 0.014 mg/l
- marine water; 0.00014 mg/l
- STP; 1.8 mg/l
- Sediment (Freshwater); 3.85 mg/kg
- Sediment (Marine water); 0.385 mg/kg
- Soil; 0.763 mg/kg

8.2. Exposure controls
HYCOLIN ANTIVIRAL BATHROOM CLEANER

Protective equipment

Provide adequate ventilation.

Appropriate engineering controls

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

Appearance

Liquid.

Colour

Colourless. Clear liquid.

Odour

Lemon.

Odour threshold

No information available.

pH

pH (concentrated solution): 2.0-3.0

Melting point

Not determined.

Initial boiling point and range

Not applicable.

Flash point

Not determined.

Evaporation rate

Not determined.

Flammability (solid, gas)

Not applicable.

Vapour pressure

Not determined.

Vapour density

Not determined.

Relative density

1.000 @ 20°C

Solubility(ies)

Soluble in water.

Partition coefficient

No information available.
HYCOLIN ANTIVIRAL BATHROOM CLEANER

Auto-ignition temperature  Not determined.
Decomposition Temperature  Not determined.
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  The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.
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  Not classified. Based on available data the classification criteria are not met.
HYCOLIN ANTIVIRAL BATHROOM CLEANER

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
Does not contain any substances known to be mutagenic.

Carcinogenicity
Does not contain any substances known to be carcinogenic.

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

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

Specific target organ toxicity - 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.

CITRIC ACID ANHYDROUS

Acute toxicity - oral
Acute toxicity oral (LD₅₀ mg/kg) 5,040.0
Species Mouse
ATE oral (mg/kg) 5,040.0

Acute toxicity - dermal
Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0
Species Rat
ATE dermal (mg/kg) 2,001.0

SECTION 12: Ecological Information
HYCOLIN ANTIVIRAL BATHROOM CLEANER

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.

CITRIC ACID ANHYDROUS

Acute aquatic toxicity

LC₅₀, 48 hours: 440 and 760 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - fish

EC₅₀, 24 hours: 1535 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 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.

CITRIC ACID ANHYDROUS

Persistence and degradability

The product is biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

No information available.

Ecological information on ingredients.

CITRIC ACID ANHYDROUS

Bioaccumulative potential

The product is not bioaccumulating.

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.

CITRIC ACID ANHYDROUS

Mobility

Soluble in water.

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.
HYCOLIN ANTIVIRAL BATHROOM CLEANER

Results of PBT and vPvB assessment
This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects
Other adverse effects
None known.

Ecological information on ingredients.

CITRIC ACID ANHYDROUS

Other adverse effects
Not available.

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
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).
HYCOLIN ANTIVIRAL BATHROOM CLEANER

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

12/01/2021

Revision

2

Supersedes date

02/07/2020

SDS number

22254

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.