



## SAFETY DATA SHEET

### V12 Hycolin Professional Antiviral Multipurpose Cleaner Disinfectant Concentrate

Compiled in Accordance with EU and GB REACH and CLP Regulations.

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

##### 1.1. Product identifier

Product name	V12 Hycolin Professional Antiviral Multipurpose Cleaner Disinfectant Concentrate
Product number	800-304-0050
Container size	1 litre

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

Identified uses	Detergent. Disinfectant.
Uses advised against	Not for Oral Consumption.

##### 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  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)
---------------------	---

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	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319
Environmental hazards	Not Classified

##### 2.2. Label elements

## V12 Hycolin Professional Antiviral Multipurpose Cleaner Disinfectant Concentrate

### Hazard pictograms



### Signal word

Warning

### Hazard statements

H315 Causes skin irritation.  
H319 Causes serious eye irritation.

### Precautionary statements

P264 Wash contaminated skin thoroughly after handling.  
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.  
P332+P313 If skin irritation occurs: Get medical advice/ attention.  
P337+P313 If eye irritation persists: Get medical advice/ attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P501 Dispose of contents/ container in accordance with local regulations.  
P280 Wear protective clothing and gloves.

### Detergent labelling

&lt; 5% disinfectants, &lt; 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

**QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES** 1 - <3%

CAS number: 68424-85-1

EC number: 270-325-2

M factor (Acute) = 1

#### Classification

Acute Tox. 4 - H302

Acute Tox. 4 - H312

Skin Corr. 1B - H314

Eye Dam. 1 - H318

Aquatic Acute 1 - H400

**ALCOHOLS, C12-14, ETHOXYLATED** <1%

CAS number: 68439-50-9

EC number: 500-213-3

REACH registration number: 01-2119487984-16-XXXX

M factor (Acute) = 1

#### Classification

Eye Dam. 1 - H318

Aquatic Acute 1 - H400

Aquatic Chronic 3 - H412

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

## V12 Hycolin Professional Antiviral Multipurpose Cleaner Disinfectant Concentrate

<b>General information</b>	Provide eyewash station.
<b>Inhalation</b>	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
<b>Ingestion</b>	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.
<b>Skin contact</b>	Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	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

<b>General information</b>	Provide eyewash station.
<b>Inhalation</b>	Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature.
<b>Ingestion</b>	Unlikely exposure route without abuse. Symptoms will include, Sickness, possible Irritation of GI Tract. A soapy taste may be reported.
<b>Skin contact</b>	Prolonged contact may cause redness, irritation and dry skin.
<b>Eye contact</b>	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

<b>Notes for the doctor</b>	No specific recommendations.
-----------------------------	------------------------------

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	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

<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Toxic gases or vapours.
--------------------------------------	--

### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Control run-off water by containing and keeping it out of sewers and watercourses.
<b>Special protective equipment for firefighters</b>	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

<b>Personal precautions</b>	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

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

## V12 Hycolin Professional Antiviral Multipurpose Cleaner Disinfectant Concentrate

### 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

#### ALCOHOLS, C12-14, ETHOXYLATED (CAS: 68439-50-9)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 294 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 2080 mg/kg/day General population - Inhalation; Long term systemic effects: 87 mg/m <sup>3</sup> General population - Dermal; Long term systemic effects: 1250 mg/kg/day General population - Oral; Long term systemic effects: 25 mg/kg/day
<b>PNEC</b>	- Fresh water; 0.0437 mg/l - Intermittent release; 0.004 mg/l - STP; 10 mg/l - Sediment (Freshwater); 31 mg/kg - Sediment (Marinewater); 31 mg/kg - Soil; 1 mg/kg

### 8.2. Exposure controls

#### Protective equipment



**Appropriate engineering controls**

Provide adequate ventilation.

## V12 Hycolin Professional Antiviral Multipurpose Cleaner Disinfectant Concentrate

<b>Eye/face protection</b>	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.
<b>Hand protection</b>	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. A break through time of >60 minutes is suggested. Gloves should be inspected regularly for damage.
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent repeated or prolonged skin contact. Use appropriate hand lotion to prevent defatting and cracking of skin.
<b>Hygiene measures</b>	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.
<b>Respiratory protection</b>	Respiratory protection not required.
<b>Environmental exposure controls</b>	Avoid releasing into the environment.

### SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Liquid.
<b>Colour</b>	Clear liquid.
<b>Odour</b>	Odourless.
<b>Odour threshold</b>	Not applicable.
<b>pH</b>	pH (concentrated solution): 10.5
<b>Melting point</b>	Not applicable.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Evaporation factor</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	Not applicable.
<b>Other flammability</b>	Not applicable.
<b>Vapour pressure</b>	Not applicable.
<b>Vapour density</b>	Not applicable.
<b>Relative density</b>	0.98-1.01 @ @ 20°C
<b>Bulk density</b>	Not applicable.
<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient</b>	Not applicable.

## V12 Hycolin Professional Antiviral Multipurpose Cleaner Disinfectant Concentrate

<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition Temperature</b>	Not applicable.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	There are no chemical groups present in the product that are associated with explosive properties.
<b>Explosive under the influence of a flame</b>	Not considered to be explosive.
<b>Oxidising properties</b>	There are no chemical groups present in the product that are associated with oxidising properties.
<b>Comments</b>	Information given is applicable to the product as supplied.

### 9.2. Other information

<b>Other information</b>	Not relevant.
--------------------------	---------------

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	Under normal storage conditions this product is stable.
-------------------	---

### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures.
------------------	--

### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Not applicable.
---	-----------------

### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid exposure to high temperatures or direct sunlight.
----------------------------	---

### 10.5. Incompatible materials

<b>Materials to avoid</b>	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
---------------------------	--

### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	No known hazardous decomposition products.
---	--

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Toxicological effects</b>	No information available.
------------------------------	---------------------------

#### Acute toxicity - oral

<b>Notes (oral LD<sub>50</sub>)</b>	Estimated value. Based on available data the classification criteria are not met.
-------------------------------------	---

<b>ATE oral (mg/kg)</b>	30,576.92
-------------------------	-----------

#### Acute toxicity - dermal

<b>Notes (dermal LD<sub>50</sub>)</b>	Estimated value. Based on available data the classification criteria are not met.
---------------------------------------	---

<b>ATE dermal (mg/kg)</b>	120,000.0
---------------------------	-----------

#### Acute toxicity - inhalation

<b>Notes (inhalation LC<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
---	--

## V12 Hycolin Professional Antiviral Multipurpose Cleaner Disinfectant Concentrate

### Skin corrosion/irritation

**Skin corrosion/irritation** Skin irritation. Calculation method.

### Serious eye damage/irritation

**Serious eye damage/irritation** Causes eye irritation. Calculation method.

### Respiratory sensitisation

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

### Skin sensitisation

**Skin sensitisation** 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.

### **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.

#### QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub>  
mg/kg)** 397.5

**Species** Rat

**ATE oral (mg/kg)** 397.5

##### Acute toxicity - dermal

**ATE dermal (mg/kg)** 1,560.0

### **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

## V12 Hycolin Professional Antiviral Multipurpose Cleaner Disinfectant Concentrate

**Toxicity** Not considered toxic to fish.

### Ecological information on ingredients.

#### QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES

##### Acute aquatic toxicity

<b>LE(C)<sub>50</sub></b>	0.1 < L(E)C <sub>50</sub> ≤ 1
<b>M factor (Acute)</b>	1
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 0.85 – 1.2 mg/l, Fish
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 0.02 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	LC <sub>50</sub> , 96 hours: 0.06 mg/l, Algae

### 12.2. Persistence and degradability

**Persistence and degradability** 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.

#### QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES

**Persistence and degradability** The substance is readily biodegradable.

### 12.3. Bioaccumulative potential

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

**Partition coefficient** Not applicable.

### 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** 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. Normal use solutions are expected to be flushed to sewers. Reuse or recycle products wherever possible.

## **SECTION 14: Transport information**



## V12 Hycolin Professional Antiviral Multipurpose Cleaner Disinfectant Concentrate

**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** Not applicable.

**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**

GB (UK) CLP and REACH Regulations.  
The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).  
EH40/2005 Workplace exposure limits.

#### **EU legislation**

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).  
Commission Regulation (EU) No 453/2010 of 20 May 2010.  
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).  
Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (as amended).  
Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.  
Commission Regulation (EU) No 2015/830 of 28 May 2015.

#### **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.  
Technical Guidance WM2: Hazardous Waste.

## V12 Hycolin Professional Antiviral Multipurpose Cleaner Disinfectant Concentrate

### 15.2. Chemical safety assessment

No information available.

### SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>DNEL: Derived No Effect Level.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>PNEC: Predicted No Effect Concentration.</p> <p>MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.</p>
<b>Revision comments</b>	Product name change. NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	20/10/2021
<b>Revision</b>	9
<b>Supersedes date</b>	21/06/2021
<b>SDS number</b>	10411
<b>Risk phrases in full</b>	<p>Not classified.</p> <p>R21/22 Harmful in contact with skin and if swallowed.</p> <p>R22 Harmful if swallowed.</p> <p>R34 Causes burns.</p> <p>R41 Risk of serious damage to eyes.</p> <p>R50 Very toxic to aquatic organisms.</p>
<b>Hazard statements in full</b>	<p>H302 Harmful if swallowed.</p> <p>H312 Harmful in contact with skin.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H315 Causes skin irritation.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H400 Very toxic to aquatic life.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p>

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

----- END OF SDS -----