



## SAFETY DATA SHEET

### EVOLUTION EV3 DOUBLE AGENT SURFACE SANITIZER (BLUE)

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

##### 1.1. Product identifier

<b>Product name</b>	EVOLUTION EV3 DOUBLE AGENT SURFACE SANITIZER (BLUE)
<b>Internal identification</b>	EV3DA, EV3DA/1000, EVF3DA
<b>Container size</b>	2x1.5L, 3x1L, 6x750ml HD Refill Flask

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

<b>Identified uses</b>	Bactericidal cleaner for all hard surfaces. Complies with BS EN 1276 and BS 5929. Effective against MRSA, Listeria, Salmonella and Escherichia coli after 5 minutes contact time. Complies with BS EN 13727. Effective against Clostridium difficile. Non-tainting, food safe. For use in hospital wards, nursing homes, catering, kitchen areas and washrooms.
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##### 1.3. Details of the supplier of the safety data sheet

<b>Supplier</b>	Cleenol Group Ltd Neville House Beaumont Road Banbury Oxon OX16 1RB UK Tel: +44 (0)1295 251721 sales@cleenol.co.uk
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##### 1.4. Emergency telephone number

<b>Emergency telephone</b>	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 (UK only).
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#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

<b>Physical hazards</b>	Not Classified
<b>Health hazards</b>	Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Carc. 2 - H351
<b>Environmental hazards</b>	Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

##### 2.2. Label elements

###### Hazard pictograms



Signal word

Danger

## EVOLUTION EV3 DOUBLE AGENT SURFACE SANITIZER (BLUE)

<b>Hazard statements</b>	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H351 Suspected of causing cancer. H410 Very toxic to aquatic life with long lasting effects.
<b>Precautionary statements</b>	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe vapour/ spray. P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/ attention. P310 Immediately call a POISON CENTER/ doctor. P363 Wash contaminated clothing before reuse. P391 Collect spillage. P405 Store locked up. P501 Dispose of contents/ container in accordance with national regulations.
<b>Contains</b>	ALCOHOLS, C12-C14, ETHOXYLATED, DIDECYLDIMETHYLAMMONIUM CHLORIDE, TRISODIUM NITRILOTRIACETATE (NTA)

### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

##### 3.2. Mixtures

<b>ALCOHOLS, C12-C14, ETHOXYLATED</b>	<b>10-30%</b>
CAS number: 68439-50-9	EC number: 500-213-3
<b>Classification</b>	
Acute Tox. 4 - H302	
Eye Dam. 1 - H318	
Aquatic Chronic 3 - H412	
<b>2-(2-BUTOXYETHOXY)ETHANOL</b>	<b>5-10%</b>
CAS number: 112-34-5	EC number: 203-961-6
	REACH registration number: 01-2119475104-44-XXXX
<b>Classification</b>	
Eye Irrit. 2 - H319	

## EVOLUTION EV3 DOUBLE AGENT SURFACE SANITIZER (BLUE)

<b>DIDECYLDIMETHYLAMMONIUM CHLORIDE</b>	<b>5-10%</b>	
CAS number: 7173-51-5	EC number: 230-525-2	
M factor (Acute) = 10	M factor (Chronic) = 10	
<b>Classification</b>		
Acute Tox. 4 - H302		
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		
<b>β-ALANINE, N-(2-CARBOXYETHYL)-, N-COCO ALKYL DERIV., DISODIUM SALT</b>	<b>1-5%</b>	
CAS number: 90170-43-7	EC number: 290-476-8	
<b>Classification</b>		
Eye Irrit. 2 - H319		
<b>TRISODIUM NITRILOTRIACETATE (NTA)</b>	<b>1-5%</b>	
CAS number: 5064-31-3	EC number: 225-768-6	REACH registration number: 01-2119519239-36-XXXX
<b>Classification</b>		
Acute Tox. 4 - H302		
Eye Irrit. 2 - H319		
Carc. 2 - H351		
<b>BRONOPOL (INN)</b>		<b>&lt;1%</b>
CAS number: 52-51-7	EC number: 200-143-0	REACH registration number: 01-2119980938-15-XXXX
M factor (Acute) = 10		
<b>Classification</b>		
Acute Tox. 4 - H302		
Acute Tox. 4 - H312		
Skin Irrit. 2 - H315		
Eye Dam. 1 - H318		
STOT SE 3 - H335		
Aquatic Acute 1 - H400		
Aquatic Chronic 2 - H411		

The full text for all hazard statements is displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation</b>	Not applicable. Remove person to fresh air and keep comfortable for breathing. Keep affected person under observation. Get medical attention if symptoms are severe or persist.
<b>Ingestion</b>	Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention.

## EVOLUTION EV3 DOUBLE AGENT SURFACE SANITIZER (BLUE)

<b>Skin contact</b>	Remove contaminated clothing and rinse skin thoroughly with water.
<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove any contact lenses and open eyelids wide apart. Continue to rinse. Get medical attention if any discomfort continues.

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

<b>Inhalation</b>	No adverse effects known.
<b>Ingestion</b>	Harmful if swallowed.
<b>Skin contact</b>	Causes severe burns.
<b>Eye contact</b>	Causes serious eye damage.

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

<b>Notes for the doctor</b>	No specific recommendations.
<b>Specific treatments</b>	Treat symptomatically.

## SECTION 5: Firefighting measures

### **5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
<b>Unsuitable extinguishing media</b>	Do not use water, if avoidable.

### **5.2. Special hazards arising from the substance or mixture**

<b>Hazardous combustion products</b>	Toxic gases or vapours.
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### **5.3. Advice for firefighters**

<b>Protective actions during firefighting</b>	Avoid breathing fire gases or vapours. 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>	Avoid contact with skin, eyes and clothing. Wear protective gloves, eye and face protection. Do not touch or walk into spilled material. Take care as floors and other surfaces may become slippery.
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### **6.2. Environmental precautions**

<b>Environmental precautions</b>	Avoid discharge to the aquatic environment. Avoid contamination of ponds or watercourses with washing down water.
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### **6.3. Methods and material for containment and cleaning up**

<b>Methods for cleaning up</b>	Absorb in vermiculite, dry sand or earth and place into containers.
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### **6.4. Reference to other sections**

<b>Reference to other sections</b>	For personal protection, see Section 8. For waste disposal, see Section 13.
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## SECTION 7: Handling and storage

### **7.1. Precautions for safe handling**

## EVOLUTION EV3 DOUBLE AGENT SURFACE SANITIZER (BLUE)

**Usage precautions** For professional users only. Avoid breathing vapour/spray. Avoid contact with skin and eyes. Avoid contact with skin, eyes and clothing. Avoid release to the environment.

### 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 temperatures between 0°C and 40°C. Store locked up.

**Storage class** Toxic storage.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2. Refer to Product Use Guide (PUG) for further information.

## 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/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 15 ppm 101.2 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit.

### 8.2. Exposure controls

**Appropriate engineering controls** Good general ventilation should be adequate to control worker exposure to airborne contaminants.

**Eye/face protection** Wear eye protection.

**Hand protection** Wear protective gloves made of the following material: Rubber (natural, latex). Nitrile rubber. To protect hands from chemicals, gloves should comply with European Standard EN374.

**Hygiene measures** Do not smoke in 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. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

## SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Clear liquid.
<b>Colour</b>	Blue.
<b>pH</b>	pH (concentrated solution): 9.0 - 9.5
<b>Initial boiling point and range</b>	100°C @ 760 mm Hg
<b>Flash point</b>	Not applicable.
<b>Relative density</b>	1.02 - 1.04 @ 20°C
<b>Solubility(ies)</b>	Soluble in water.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	Non-viscous.
<b>Explosive properties</b>	Not applicable.
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.

## EVOLUTION EV3 DOUBLE AGENT SURFACE SANITIZER (BLUE)

### 9.2. Other information

<b>Refractive index</b>	41 - 43
<b>Volatile organic compound</b>	See SECTION 3: Composition/information on ingredients.

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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#### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
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#### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	No potentially hazardous reactions known.
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#### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	There are no known conditions that are likely to result in a hazardous situation.
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#### 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.
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#### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Does not decompose when used and stored as recommended.
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### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

##### Acute toxicity - oral

<b>ATE oral (mg/kg)</b>	1,237.62
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### **SECTION 12: Ecological information**

<b>Ecotoxicity</b>	Very toxic to aquatic life with long lasting effects.
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#### 12.1. Toxicity

#### 12.2. Persistence and degradability

<b>Persistence and degradability</b>	Moderately biodegradable.
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#### 12.3. Bioaccumulative potential

<b>Bioaccumulative potential</b>	The product does not contain any substances expected to be bioaccumulating.
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#### 12.4. Mobility in soil

<b>Mobility</b>	Soluble in water.
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#### 12.5. Results of PBT and vPvB assessment

<b>Results of PBT and vPvB assessment</b>	This product does not contain any substances classified as PBT or vPvB.
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#### 12.6. Other adverse effects

<b>Other adverse effects</b>	None known.
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### **SECTION 13: Disposal considerations**

## EVOLUTION EV3 DOUBLE AGENT SURFACE SANITIZER (BLUE)

### 13.1. Waste treatment methods

**General information** Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor.

**Disposal methods** Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor.

### SECTION 14: Transport information

#### 14.1. UN number

UN No. (ADR/RID) 1760

UN No. (IMDG) 1760

UN No. (ICAO) 1760

UN No. (ADN) 1760

#### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** CORROSIVE LIQUID, N.O.S. (DIDECYLDIMETHYLAMMONIUM CHLORIDE, BRONOPOL (INN))

**Proper shipping name (IMDG)** CORROSIVE LIQUID, N.O.S. (DIDECYLDIMETHYLAMMONIUM CHLORIDE, BRONOPOL (INN))

**Proper shipping name (ICAO)** CORROSIVE LIQUID, N.O.S. (DIDECYLDIMETHYLAMMONIUM CHLORIDE, BRONOPOL (INN))

**Proper shipping name (ADN)** CORROSIVE LIQUID, N.O.S. (DIDECYLDIMETHYLAMMONIUM CHLORIDE, BRONOPOL (INN))

#### 14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID classification code C9

ADR/RID label 8

IMDG class 8

ICAO class/division 8

ADN class 8

#### Transport labels



#### 14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

ADN packing group III

#### 14.5. Environmental hazards

## EVOLUTION EV3 DOUBLE AGENT SURFACE SANITIZER (BLUE)

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

EmS	F-A, S-B
ADR transport category	3
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	80
Tunnel restriction code	(E)

### 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

EU legislation	<p>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).</p> <p>Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended).</p> <p>Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products (as amended).</p> <p>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).</p> <p>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).</p>
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### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

## SECTION 16: Other information

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SDS number	10186



## EVOLUTION EV3 DOUBLE AGENT SURFACE SANITIZER (BLUE)

### Hazard statements in full

H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

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.