
SAFETY DATA SHEET

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

1.1 Product identifier

- Product Name: AIRGENE Aerosol Disinfectant
- UFI: J7TH-9SRG-210F-967A
- Product Part Number: RM217

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

- Use of the substance/mixture: Aerosol Surface Disinfectant

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Byotrol
- Address of Supplier: Building 303 (Ashton),
Thornton Science Park,
Pool Lane, Ince, Chester,
CH2 4NU
- Telephone: +44 (0) 1925 742 000
- Email: Info@byotrol.com
- Name of Manufacturer: Vesismin S.L.U.
- Address of Manufacturer: C/Aribau 230-240, 6th floor, L-O,
08006 Barcelona (Spain)
- Telephone: +34 934.095.301

1.4 Emergency telephone number

- UK Emergency Telephone: In case of a medical emergency following exposure to a chemical, the public should call NHS Direct on 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- CLP: Flam. Aerosol 1, Eye Irrit. 2, STOT SE 3, Aquatic Chronic 3

2.2 Label elements

**GHS07****GHS02**

- Signal Word: Danger

2.2.1 Hazard statements

- H222 - Extremely flammable aerosol.
- H229 - Pressurised container: May burst if heated.



SECTION 2: Hazards identification (....)

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

H412 - Harmful to aquatic life with long lasting effects.

EUH208 - Contains: Cinnamaldehyde. May produce an allergic reaction.

2.2.2 Precautionary statements

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use.

P261 - Avoid breathing vapours.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with national regulations

2.3 Other hazards

- Pressurized container
- Product does not contain any substances known to be endocrine disruptors
- This product does not contain any substances classified as PBT or vPvB

Active ingredients:

Didecyl dimethyl ammonium chloride 3.22g/Kg

Phenoxyethanol 1g/Kg

Cinnamaldehyde 0.2g/Kg

Supplementary precautionary statements:

P264 - Wash hands thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear protective eye protection.

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.

P312 - Call a POISON CENTRE/doctor if you feel unwell.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P405 - Store locked up.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical Name	CAS-No. EC-No. Index-No. REACH Reg No.	Concentration	Categories	H Statements	Specific Concentration Limits	M factor
Isopropyl alcohol	67-63-0 200-661-7 01-2119457558-25	15-20%	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	H225 H319 H336	N/A	N/A
Didecyl dimethyl ammonium chloride	7173-51-5 230-525-2 613-131-00-6 01-2119945987-15	0.1-1%	Acute Tox. 4 Skin Corr. 1B Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 2	H302 H314 H318 H400 H411	N/A	Acute = 10



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SECTION 3: Composition/information on ingredients (....)

2-Phenoxyethanol	122-99-6 204-589-7 01-2119488943-21	0.1-1%	Acute Tox. 4 Eye Dam. 1	H302 H318	N/A	N/A
Cinnamaldehyde	104-55-2 203-213-9 01-2119935242-45	0.01-0.1%	Skin Irrit. 2 Skin Sens. 1 Aquatic Chronic 4	H315 H317 H412	N/A	N/A

SECTION 4: First aid measures

4.1 Description of first aid measures

4.1.1 Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Get medical advice/attention.
Apply artificial respiration only if patient is not breathing

4.1.2 Ingestion

Rinse mouth.
Do NOT induce vomiting.
Give plenty of water to drink
Never give anything by mouth to an unconscious person
Get medical advice/attention if you feel unwell.

4.1.3 Contact with skin

IF ON SKIN: Wash with plenty of soap and water.
Take off contaminated clothing and wash it before reuse.

4.1.4 Contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

4.2.1 Inhalation

May cause drowsiness
May cause dizziness
May cause irritation
May cause headache
In cases of severe exposure, pulmonary oedema may develop
In cases of severe exposure, irregular pulse may develop
In cases of severe exposure, hallucinations and ventricular arrhythmias may develop

4.2.2 Ingestion

May cause gastro-intestinal disturbances

4.2.3 Contact with skin

Product considered to be low hazard under normal conditions of use
May cause allergic reaction in susceptible people



SECTION 4: First aid measures (....)

In cases of severe exposure, irritation may develop

4.2.4 Contact with eyes

Causes severe irritation

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically
 - When in doubt or symptoms persist, seek medical attention
 - In case of ingestion, consider endoscopy
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SECTION 5: Firefighting measures

5.1 Extinguishing media

- In case of fire use water, alcohol resistant foam, carbon dioxide or dry agent
- Cool the bottles with water mist if they are exposed to fire. Do not use a jet of water. Keep away from sources of ignition. Do not smoke.

5.2 Special hazards arising from the substance or mixture

- Inform Fire Brigade of potential danger of exploding and rocketing cylinders
- At high temperatures the propellant is decomposed in toxic and corrosive products: hydrogen fluorides and carbon dioxides.

5.3 Advice for firefighters

- Fight fire with normal precautions from a reasonable distance.
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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8
- No special precautions are required for this product

6.2 Environmental precautions

- Do not discharge into drains or the environment, dispose to an authorised waste collection point
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities

6.3 Methods and material for containment and cleaning up

- Contain spillage with sand, earth or other suitable non-combustible material. Dispose of spillage to a hazardous or special waste collection point.
- Wash thoroughly after dealing with spillage

6.4 Reference to other sections

- 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

- Do not eat, drink or smoke when using this product.
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SECTION 7: Handling and storage (....)

- Avoid contact with skin and eyes
- Keep away from ignition sources.

IMPORTANT: Bottle under pressure. Avoid exposing it to sunlight and temperatures higher than 50°C. Do not perforate or burn, even after its use. Do not vaporise it near a flame or incandescent object.

7.2 Conditions for safe storage, including any incompatibilities

- Store at ambient temperature
- Keep at temperature not exceeding 50 °C
- Protect from sunlight.
- Keep away from ignition sources.
- Do not keep in a place where high temperatures could be reached under the sun (i.e. vehicles).

7.3 Specific end use(s)

- Surface disinfectant. For professional use only.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Threshold Limit Value (TLV) of Isopropyl alcohol:

- UK TWA (8hr) of 400 ppm (999 mg/m³) and a STEL (15 minute) of 500 ppm (1250 mg/m³).
- FRANCE INRS VLE 480ppm (980mg/m³)
- GERMANY MAK 200ppm (500mg/m³)

Exposure limit value for the propellant (American Industrial Hygiene Association): 1000 ppm = 4420 mg/m³.

Considering the bottle content and the disinfecting volume, these limits are never exceeded.

Ensure humans and animals have left the room before the product is dispensed. Leave the product to act for 60 minutes after discharge is complete. Ventilate the room after use, before people and animals are allowed to re-enter

Substances

Chemical Name	DNEL (Industry; dermal, long term systemic effects)	DNEL (Industry; inhalational, long term systemic effects)	DNEL (Consumer; dermal, long term systemic effects)	DNEL (Consumer; inhalational, long term local effects)	DNEL (Consumer; oral, long term local effects)
2-Phenoxyethanol	34.72 mg/kg	8.07 mg/m ³	20.83 mg/kg	2.50 mg/m ³	17.43 mg/kg

8.2 Exposure controls

Hygienic measures: Do not eat, drink or smoke during use.



Goggles

- Avoid contact with skin and eyes
- Wear goggles giving complete eye protection



SECTION 8: Exposure controls/personal protection (....)

- Hand protection not required. Wash hands at the end of each shift and before eating, smoking or using the toilet.
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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state: Aerosol
Liquid (actives) + Gas (Propellant)
- Colour: No information available
- Odour: Characteristic odour, Alcohol odour
- Melting point/Range: Not available
- Boiling Point/Range: Not available
- Flammability: Flammable
- pH: 6.50-8.50
- Solubility in water: Completely soluble in water
- Density: 0,784 – 0,804 g/cc (20°C)
- Autoignition Temperature: Not available
- Decomposition temperature: Not available
- Explosive Properties: Not available
- Kinematic viscosity: Not available
- Particle characteristics: Not applicable
- Partition coefficient : n-Octanol/water - not known
- Relative vapour density: Not available
- Vapour Pressure: Not available

9.2 Other information

9.2.1. Information with regard to physical hazard classes
No additional information available

9.2.2. Other safety characteristics

Data for Isopropyl Alcohol

Flash Point: 12 °C

Relative density of vapour: > 1.0

Octanol-water partition coefficient: log Pow = 0.05

Data for the Propellant

Vapour pressure: Pv (20°C) = 5.0 bar

Vapour density (air = 1): 4.32 (20°C)

Octanol-water partition coefficient: log Pow = 1.06

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SECTION 10: Stability and reactivity

10.1 Reactivity



SECTION 10: Stability and reactivity (....)

- No hazardous reactions known if used for its intended purpose

10.2 Chemical stability

- Stable under normal ambient conditions and when used as recommended

10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

- Keep away from heat and sources of ignition
- The propellant can produce dangerous gases in case of decomposition, in contact with a flame or heat metal surfaces.

10.5 Incompatible materials

Not applicable

10.6 Hazardous decomposition products

Not applicable

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1.1 Acute toxicity

Estimated LD₅₀ (oral) (ATE) : 54347.82 mg/kg
Estimated LD₅₀ (dermal) (ATE) : >4000 mg/kg
Estimated LD₅₀ (inhalational) (ATE) : >20 mg/l/4hr (gas/vapour)

11.1.2 Skin corrosion/irritation

Not hazardous

11.1.3 Serious eye damage/irritation

Causes irritation

11.1.4 Respiratory or skin sensitisation

Not hazardous
Contains cinnamaldehyde. May produce an allergic reaction.

11.1.5 Germ cell mutagenicity

Not mutagenic

Isopropanol:
Mutagenicity in germinal cells
Genotoxicity in vitro: Negative

11.1.6 Carcinogenicity

No evidence of carcinogenic effects

11.1.7 Reproductive toxicity



SECTION 11: Toxicological information (....)

No evidence of reproductive effects

11.1.8 STOT (specific target organ toxicity) - single exposure

The propellant is not harmful by inhalation: LC50/inhalation/4h/rodent > 500.000 ppm.

As with other volatile aliphatic halogenated compounds, the product can produce, by vapour accumulation and/or inhalation in great quantities, loss of consciousness and heart disorders aggravated by stress and lack of oxygen (mortal risk).

11.1.9 STOT (specific target organ toxicity) - repeated exposure

No experimental data available

11.1.10 Aspiration hazard

No aspiration toxicity classification

11.2 Information on other hazards

- No information available

SECTION 12: Ecological information

12.1 Toxicity

- Contains ingredients that are dangerous for the environment (see section 3)
- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

12.2 Persistence and degradability

The product has powerful bactericide, virucide, and fungicide action, hence it could affect the microbial flora in sewage treatment works.

Isopropyl alcohol, didecyl dimethyl ammonium chloride, cinnamaldehyde, 2-phenoxyethanol:

Easily biodegradable, according to OECD standards. Easily eliminated in a sewage treatment.

Propellant: Degradation in atmosphere: T1/2 life = 18 days. Ozone potential destruction: PDO = 0.

Potential global warming (PGW) < 1.

12.3 Bioaccumulative potential

Not experimental data available.

2-Phenoxyethanol: Octanol-water partition coefficient (log Kow): 1,2

Isopropyl alcohol: Octanol-water partition coefficient (log Kow): ≤ 4

Propellant: Low potential for bioaccumulation, log Pow = 1.6

12.4 Mobility in soil

- Not available

12.5 Results of PBT and vPvB assessment

- This product does not contain any substances classified as PBT or vPvB

12.6 Endocrine disrupting properties

No further information available. This substance does not have endocrine disrupting properties on target organisms, as it does not meet the criteria established in section B of Regulation (EU) No. 2017/2100.

12.7 Other adverse effects

Toxic to sewage works organisms.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Canister is recyclable once content is discharged. Package product surplus or waste resulting from normal use. Label it for identification purposes and seal it. Dirty, empty recipients should be handled in the same manner. The product may be taken to a controlled incineration site, always according to local regulations.

SECTION 14: Transport information



Flammable gas.

14.1 UN number or ID number

- UN No.: 1950

14.2 UN proper shipping name

- Proper Shipping Name: FLAMMABLE AEROSOL

14.3 Transport hazard class(es)

- Hazard Class: 2.1

14.4 Packing group

- Packing Group: N/A

14.5 Environmental hazards

N/A

14.6 Special precautions for user

N/A

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

ONU number: 1950

ADR/RID Classification:

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Class: 2 (Gas)

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Classification: 5A Label: 2.1

IMDG Classification:

-

Class: 2.1

Air (IATA/ICAO):

ONU 1950 – Flammable aerosol

Division 2.1 – Flammable gases

Special provision A145 / A167

Passenger aircraft: Packaging instructions 203/Y203

Max. net quantity 75 kg/30 kg



SECTION 14: Transport information (....)

Cargo aircraft: Packaging instructions 203
Max. net quantity 150 kg

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- This Safety Data Sheet is provided in compliance with the EC Regulations 1907/2006, 1272/2008, 2015/830 and 2020/878
- Refer to current CLP Regulations
- Refer to current ADR Regulations
- Refer to current BPR regulations

15.2 Chemical safety assessment

- This product is either exempt from REACH or does not meet the minimum volume threshold for a chemical safety assessment (CSA)
 - This Safety Data Sheet does not constitute a workplace risk assessment
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SECTION 16: Other information

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.