



SAFETY DATA SHEET

Zoflora Antibacterial Spray

Revision date: 20.12.10

SDS/654/3

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1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Zoflora Antibacterial Spray ó Citrus, Springtime and Rainfresh.

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

Household disinfectant spray

1.3. Details of the supplier of the safety data sheet

Thornton & Ross Ltd, Linthwaite, Huddersfield, HD7 5QH
Tel: 01484 842217 Fax: 01484 847301 Email: sds@thorntonross.com

1.4. Emergency telephone number:

Out of normal working hours: +44 7772 316898

2. Hazards identification – Citrus

2.1. Classification of the substance or mixture

According to Directive 67/548/EEC classified as flammable.

2.2. Label elements

Pictogram



Hazard Class

Flammable

Risk phrases

R10 Flammable

Safety phrases

S2 Keep out of reach of children

S23 Do not breathe spray

S46 If swallowed seek medical advice immediately and show this container or label

S51 Use only in well ventilated areas.

2.3. Other Hazards

N/A

3. Composition/information on ingredients

3.1. Substances

<i>Substance</i>	<i>CAS- No</i>	<i>%</i>	<i>Symbols</i>	<i>R phrases</i>	<i>H statements</i>
Benzalkonium chloride	68989-00-4	<3	C, N	21/22, 34, 50	312, 302, 314, 400
Ethanol	64-17-5	30 - 35	F	11	225
Methanol	67-56-1	<3	F, T	11, 23/24/25, 39/23/24/25	225, 331, 311, 301, 370
Perfume ó Citrus	N/A	<3	Xi	36,43,52/53	
Springtime		<3	Xi	43, 51/53	
Rainfresh		<3	Xi	43, 51/53	



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4. First aid measures

4.1. Description of first aid measures

Eyes – Rinse with plenty of water for at least 10 minutes. Get medical attention.

Ingestion – Wash out mouth with water and then drink plenty of water. Do not induce vomiting. Get medical attention.

Skin – Wash skin thoroughly with water and soap. If irritation persists seek medical advice.

Inhalation – Remove from exposure and get fresh air. Get medical attention.

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

May irritate the skin and eyes. Ingestion or inhalation of large quantities may cause intoxication.

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

If not sure about any symptoms contact a doctor or emergency service.

5. Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media – Foam, carbon dioxide or powder extinguishers.

Unsuitable extinguishing media – Do not use water jet.

5.2. Special hazards arising from the substance or mixture

May produce toxic fumes if involved in a fire.

5.3. Advice for fire-fighters

Wear self contained breathing apparatus and protective clothing.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Extinguish sources of ignition. Wear appropriate protective clothing, Avoid contact with eyes and skin.

6.2. Environmental precautions

Prevent material entering drains and watercourses. Advise local authorities if spillage has entered watercourses and sewer.

6.3. Methods and material for containment and cleaning up

Absorb onto inert material and transfer to suitable containers for disposal by a licensed waste contractor.

6.4. Reference to other sections

See section 8 for protective equipment requirements.

7. Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Handle in well ventilated area to prevent build up of vapour. Avoid static discharge and sources of ignition.



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7.2. Conditions for safe storage, including any incompatibilities

Store in a cool dry place, away from sources of ignition.

7.3. Specific end use(s)

N/A

8. Exposure controls/personal protection

8.1. Control parameters

Short term exposure limit as methanol ó 250ppm
Long term exposure limits as methanol ó 200ppm, as ethanol ó 1000ppm.

8.2. Exposure controls

Engineering Controls ó provide adequate ventilation.

Eye/face Protection – chemical goggles or safety glasses

Hand protection – Rubber gloves.

Skin protection – overalls must be worn when handling large quantities.

Other protection – n/a.

Respiratory protection – if ventilation is insufficient, wear respiratory protection.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance – clear straw coloured liquid

Odour – perfumed

pH – not available

Melting Point/freezing point – not available

Boiling point – not available

Flash point – 28-29°C

Evaporation rate – not available

Flammability – Flammable

Decomposition temperature – not available

Viscosity – not available

Explosive limit % (Upper) ó 19% (ethanol)

Explosive limit % (lower) ó 3.3 % (ethanol)

Vapour pressure ó not available

Vapour density (air=1) – not available

Relative density – 0.95

Solubility – Miscible with water, ether, chloroform, acetone and glycerol.

Partition coefficient – not available

Auto ignition temperature – not available

Oxidising properties – not available

Explosive properties – not available

9.2. Other information

Not available

10. Stability and reactivity

10.1. Reactivity

Stable

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

Possible reactions with nitric acid and sulphuric acid.



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10.4. Conditions to avoid

Avoid high temperature, static discharge and ignition sources.

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

None known

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity ó LD50 (oral rat) 6200 ó 17800mg/kg ó ethanol
LD50 (oral rat) 795mg/kg ó benzalkonium chloride

Irritation – May cause stinging and inflammation on eyes. May cause irritation if sensitive or after prolonged contact on skin. May also cause smarting on cuts and abrasions on skin.

Corrosivity – data not available

Sensitization – data not available

Repeated dose toxicity – data not available

Carcinogenicity – data not available

Mutagenicity – data not available

Reproductive toxicity – data not available

12. Ecological information

12.1. Toxicity

LC50 ó 1 - 10 mg/l 96h (fish), EC50 - <1mg/l 48h (daphnia) for benzalkonium chloride

12.2. Persistence and degradability

Data not available.

12.3. Bioaccumulative potential

Data not available.

12.4. Mobility in soil

Data not available.

12.5. Results of PBT and vPvB assessment

Data not available

12.6. Other adverse effects

N/A



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13. Disposal considerations

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. This material and its container must be disposed as hazardous waste.

14. Transport information

14.1. UN number

1170

14.2. UN proper shipping name

Ethanol Solution (Ethyl Alcohol Solution)

14.3. Transport hazard class (es)

3

14.4. Packing group

III

14.5. Environmental hazards

Not a marine pollutant.

14.6. Special precautions for user

N/A

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

N/A

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Not regulated by specific legislation.

15.2. Chemical Safety Assessment

Not available

16. Other information

16.1. Reason for change

Updated to new format and included classification of ingredients to CLP.

16.2. Source of information

Ingredient safety data sheets

16.3 Risk phrases and hazard statements from section 3

R10 Flammable
R11 Highly Flammable
R22 Harmful if swallowed



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R23/24/25 Toxic by inhalation, in contact with skin and if swallowed
R34 Cause burns
R36 Irritating to eyes
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
R43 May cause sensitisation by skin contact
R50 Very toxic to aquatic organisms.
R51/53 Toxic to aquatic organisms, may cause long term effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, may cause long term effects in the aquatic environment.

H225 Highly flammable liquid and vapour
H301 Toxic if swallowed
H302 Harmful if swallowed
H311 Toxic in contact with skin
H312 Harmful in contact with skin
H314 Causes severe skin burns and eye damage
H331 Toxic if inhaled
H370 Causes damage to organs
H400 Very toxic to aquatic life