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

1.1. Product identifier

Zoflora Concentrated Disinfectant (all perfumes)

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

Household disinfectant

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: +44 870 8510207

2. Hazards identification

2.1. Classification of the substance or mixture

According to Regulation EC 1272/2008 classified as Flammable Liquid Category 2, Skin Irritant Category 2, Eye Irritant Category 2, and Hazardous to Aquatic Environment, Chronic Hazard Category 3. Additionally, Sweetpea fragrance only also classified as Skin Sensitisation Category 1

2.2. Label elements

GHS Pictogram



Signal Word

Danger

Word Hazard Class

Flammable Liquid Category 2 Skin Irritant Category 2 Eve Irritant Category 2

Hazardous To Aquatic Environment - Chronic Hazard

Category 3

Additional for Sweetpea only: Skin Sensitisation Category 1

Hazard statements

H225: Highly flammable liquid and vapour

H319: Causes serious eye irritation

H315: Causes skin irritation

H412: Harmful to aquatic life with long lasting

effects

Additional for Sweetpea only:

H317: May cause an allergic reaction

Precautionary statements

P101: If medical advice is needed, have product container

or label at hand

P102: Keep out of reach of children

P210: Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking

P280: Wear protective gloves/eye protection

P305+351+338: IF IN EYES: Rinse continuously with

water for several minutes. Remove contact lenses if

present and easy to do - continue rinsing

P337+313: Get medical advice/attention

P501: Dispose of contents by pouring down drain with plenty of water. Empty containers can be disposed of by recycling where possible. Contact your local council for details.



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Supplemental Hazard Information

<u>Apple Orchard:</u> Contains limonene, benzyl salicylate and hexylcinnamaldehyde. May produce an allergic reaction.

<u>Bluebell Woods:</u> Contains benzyl salicylate, hexylcinnamaldehyde, limonene, citronellol and butylbenzyl propionaldehyde. May produce an allergic reaction.

<u>Bouquet:</u> Contains nopyl acetate, hexylcinnamaldehyde and geraniol. May produce an allergic reaction. <u>Citrus Fresh:</u> Contains limonene. May produce an allergic reaction.

<u>Country Garden:</u> Contains benzyl salicylate, tetramethyl acetyloctahydronaphthalenes, citronellol and limonene. May produce an allergic reaction.

<u>Cranberry and Orange:</u> Contains limonene, cinnamaldehyde and eugenol. May produce an allergic reaction. <u>Green Valley:</u> Contains pentamethylheptenone and hydrocinnamaldehyde. May produce an allergic reaction. <u>Hello Spring:</u> Contains alpha-hexylcinnamaldehyde, citronellol, 2-(4-tert-butylbenzyl)propionaldehyde and delta-damascone. May produce an allergic reaction.

<u>Honeysuckle and Jasmine</u>: Contains (alpha-hexylcinnamaldehyde, citronellol, benzyl salicylate, limonene, 2-(4-tert-butylbenzyl)propionaldehyde, geraniol). May produce an allergic reaction.

<u>Hyacinth:</u> Contains hexylcinnamaldehyde, eugenol, hydroxycironellal, citronellol, phenylacetaldehyde. May produce an allergic reaction.

<u>Lavender</u>: Contains cineole, tetramethyl acetyloctahydronaphthalenes, limonene and pinene. May produce an allergic reaction.

<u>Linen Fresh:</u> Contains benzyl salicylate and tetramethyl acetyloctahydronaphthalenes. May produce an allergic reaction.

Pink Grapefruit: Contains limonene and hexylcinnamaldehyde. May produce an allergic reaction.

Rose: Contains geraniol, citronellol, benzyl salicylate, nerol and delta-damascone. May produce an allergic reaction

<u>Springtime</u>: Contains citronellol, benzyl salicylate, butylphenyl methylpropional, hexyl cinnamaldehyde, amyl cinnamaldehyde. May produce an allergic reaction.

<u>Summer Bouquet:</u> Contains hexylcinnamaldehyde, geraniol, citronellol, butylbenzyl propionaldehyde. May produce an allergic reaction.

<u>Summer Breeze:</u> Contains hexylcinnamaldehyde, geraniol, citronellol, butylbenzyl propionaldehyde. May produce an allergic reaction.

<u>Sweetpea:</u> Contains benzylideneheptanal, hexylcinnamaldehyde, citronellol, heliotropine, cinnamyl alcohol, butylbenzyl propionaldehyde, cyclamen aldehyde, hydroxycitronallal, isoeugenol.

<u>Twilight Garden:</u> Contains hexylcinnamaldehyde, butylphenyl methylpropional, 4-tert-butylcyclohexyl acetate. May produce an allergic reaction.

Warm Cinnamon: Contains eugenol, cinnamaldehyde, coumarin. May produce an allergic reaction.

Winter Morning: Contains cinnamal, alpha-methylcinnamaldehyde, eugenol, cineole. May produce an allergic reaction.

Winter Spice: Contains limonene, eugenol. May produce an allergic reaction.

2.3. Other hazards

None known.

3. Composition/information on ingredients

3.2. Mixtures				
Substance	CAS- No	%	Hazard class	H statements
Benzalkonium chloride Ethanol	68424-85-1 64-17-5	<5 65 - 75	Met Corr 1, Ac Tox 4, Sk Cor 1, Aq Ac 1, Aq Ch 1 Flam Liq 2	290, 312, 302, 314, 400, 410 225
Methanol	67-56-1	<3	Flam Liq 2, Ac Tox 3, STOT SE 1	225, 331, 311, 301, 370
Perfume:	N/A	<u>5 - 15</u>		
Apple Orchard			Eye Irr 2, Sk Sens 1, Aq Chr 2	319, 317, 411
Bluebell woods			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Bouquet			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Citrus			Eye Irr 2, Sk Sens 1, Aq Chr 2	319, 317, 411



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Country garden Cranberry &	Skin Irr 2, Sk Sens 1, Aq Chr 2 Sk Sens 1, Aq ch 2	315, 317, 411 317, 411
Orange Green valley	Eye Irr 2, Sk Sens 1, Aq Chr 3	319, 317, 412
Hello Spring	Eye Irr 2, Sk Sens 1, Aq Chr 2	319, 317, 411
Honeysuckle & Jasmine	Sk Irr 2, Eye Irr 2, Sk Sens 1	315, 317, 319
Hyacinth	Eye Irr 2, Sk Sens 1, Asp Tox 1, Aq Chr 2	319, 317, 304, 411
Lavender	Sk Irr 2, Eye Dam 1, Sk Sens 1, Aq Chr 2	315, 318, 317, 411
Linen Fresh	Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Pink Grapefruit	Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Rose	Sk Irr 2, Eye Dam 1, Sk Sens 1, Aq Chr 3	315, 318, 317, 412
Springtime	Sk Irr 2, Eye Irr 2, Sk Sens 1, Repro Tox 2, Aq Chr 2	315, 319, 317, 361f,
Summer bouquet	Sk Irr 2, Eye Dam 1, Sk Sens 1, Aq Chr 2	411 315, 318, 317, 411
Summer breeze Sweetpea	Sk Irr 2, Eye Dam 1, Sk Sens 1, Aq Chr 2 Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 3	315, 318, 317, 411 315, 319, 317, 412
Twilight Garden	Sk Sens 1, Repro Tox 2, Aq Chr 2	317, 361f, 411
Warm Cinnamon	Sk Irr 2, Eye Irr 2, Sk Sens 1	315, 319, 317
Winter Morning	Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Winter Spice	Eye Irr 2, Sk Sens 1, Aq Chr 2	319, 317, 411

4. First aid measures

4.1. Description of first aid measures

Eyes –Rinse with plenty of water for at least 10 minutes, keeping the eye lids open if necessary. 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. 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 - water spray, foam, dry chemical or carbon dioxide.



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Unsuitable extinguishing media – Do not use water jet.

5.2. Special hazards arising from the substance or mixture

May produce carbon dioxide, carbon monoxide and alcohol fumes.

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

7.2. Conditions for safe storage, including any incompatibilities

Store in well closed containers in a cool place, away from sources of ignition.

7.3. Specific end use(s)

Household disinfectant

8. Exposure controls/personal protection

8.1. Control parameters

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

8.2. Exposure controls

Engineering Controls – 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 – none required.



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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 yellow mobile liquid

Odour - perfumed

pH – not determined

Melting Point/freezing point - -114°C (ethanol)

Initial boiling point and boiling range – 78°C

(ethanol)/not determined

Flash point – 17°C

Evaporation rate – 3.4 (ethanol)

Flammability - highly flammable

Decomposition temperature – not available

Viscosity – 1.52 (ethanol)

Solubility – dispersible in water Partition coefficient – 0.32 (ethanol)

Vapour pressure – 5.81 (ethanol)

Auto ignition temperature – 365°C (ethanol)

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

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

Vapour density (air=1) - 1.59 (ethanol)

Relative density – 0.85 - 0.87 @20 °C

 ${\it Oxidising\ properties}-not\ determined$

Explosive properties – not determined

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, sulphuric acid and oxidising agents.

10.4. Conditions to avoid

Avoid high temperature, static discharge and ignition sources.

10.5. Incompatible materials

Acids, oxidising agents.

10.6. Hazardous decomposition products

None known

11. Toxicological information

11.1. Information on toxicological effects

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

Skin corrosion/irritation - May irritate skin

Serious eye damage/irritation – May irritate eyes

Respiratory or skin sensitisation - Some perfumes may cause sensitisation by skin contact



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Germ cell mutagenicity – data not available

Carcinogenicity – data not available

Reproductive toxicity - data not available

STOT-single exposure - data not available

STOT-repeated exposure - data not available

Aspiration hazard – data not available

12. Ecological information

12.1. Toxicity

LC50 - 1 - 10 mg/l 96h (fish), EC50 - <1 mg/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

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

П

14.5. Environmental hazards

Not a marine pollutant.



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14.6. Special precautions for user

N/A

14.7. Transport in bulk according to Annex II of MARPOL73/78 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

Update to perfume sensitiser list.

16.2. Source of information

Ingredient safety data sheets

16.3 Risk phrases and hazard statements from section 3

- H290 May be corrosive to metals
- H225 Highly flammable liquid and vapour
- H301 Toxic if swallowed
- H302 Harmful if swallowed
- H304 May be fatal if swallowed and enters airways
- H311 Toxic in contact with skin
- H312 Harmful in contact with skin
- H314 Causes severe skin burns and eye damage
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- H319 Causes serious eye irritation
- H331 Toxic if inhaled
- H361f Suspected of damaging fertility
- H370 Causes damage to organs
- 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