

SAFETY DATA SHEET

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Zoflora Concentrated Disinfectant (All Perfumes) – 9405771

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

Household disinfectant.

1.3. Details of supplier of the safety data sheet

Supplier name: Thornton & Ross Ltd
Supplier address: Linthwaite, Huddersfield, HD7 5QH
Telephone: +44 (0) 1484 842 217
Fax: +44 (0) 1484 847 301
Email: sds@thorntonross.com

1.4. Emergency telephone number

Telephone: +44 (0) 1484 848 164
Available: Out of working hours

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

According to Regulation (EC) No. 1272/2008 (CLP) the mixture is 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 is also classified as Skin Sensitisation Category 1.

2.2. Label elements



Pictogram(s):

Signal Word: Danger

Hazard Classification: Flammable Liquid Category 2
Skin Irritant Category 2
Eye Irritant Category 2
Hazardous to Aquatic Environment Chronic Category 3

Additional for Sweetpea only: Skin Sensitisation Category 1

Hazard Statements: H225: Highly flammable liquid or vapour
H315: Causes skin irritation
H319: Causes serious eye irritation
H412: Harmful to aquatic life with long lasting effects

Additional for Sweetpea only: H317: May cause 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: IN IN EYES – rinse continuously with water for several minutes, remove contact lenses if present and easy to do so – 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.

EUH Statements: EUH208: Contains (see section 2.2.1). May produce an allergic reaction.

2.2.1 Supplemental Hazard Information Relating to Perfumes

| | |
|--------------------------|---|
| Apple Orchard: | Contains limonene, benzyl salicylate and hexylcinnamaldehyde. May produce an allergic reaction. |
| Bluebell Woods: | Contains linalool, benzyl salicylate, hexylcinnamaldehyde, limonene, citronellol and butylbenzyl propionaldehyde. May produce an allergic reaction. |
| Bouquet: | Contains nopyl acetate, hexylcinnamaldehyde and geraniol. May produce an allergic reaction. |
| Citrus Fresh: | Contains limonene. May produce an allergic reaction. |
| Country Garden: | Contains benzyl salicylate, tetramethyl acetyloctahydronaphthalenes, citronellol, linalool and limonene. May produce an allergic reaction. |
| Cranberry and Orange: | Contains limonene, cinnamaldehyde and eugenol. May produce an allergic reaction. |
| Green Valley: | Contains Linalool, pentamethylheptenone and hydrocinnamaldehyde. May produce an allergic reaction. |
| Hello Spring: | Contains hexylcinnamaldehyde, citronellol, butylbenzyl propionaldehyde and delta-damascone. May produce an allergic reaction. |
| Honeysuckle and Jasmine: | Contains hexylcinnamaldehyde, citronellol, benzyl salicylate, limonene, linalool, butylbenzyl propionaldehyde and geraniol. May produce an allergic reaction. |
| Hyacinth: | Contains hexylcinnamaldehyde, eugenol, hydroxycitronellal, citronellol and phenylacetaldehyde. May produce an allergic reaction. |
| Lavender: | Contains cineole, tetramethyl acetyloctahydronaphthalenes, linalool, limonene, pinene and hydroxyisohexyl 3-cyclohexene carboxaldehyde. May produce an allergic reaction. |
| Lavender Escape: | Contains citronellol, geraniol, limonene, nerol, cineole and linalool. May produce an allergic reaction. |
| Lemon Zing: | Contains linalool, citral and geraniol. May produce an allergic reaction. |
| Linen Fresh: | Contains linalool, benzyl salicylate, tetramethyl acetyloctahydronaphthalenes and hydroxyisohexyl 3-cyclohexene carboxaldehyde. May produce an allergic reaction. |
| Paradise Peach: | Contains citronellol, limonene, linalool, nerol and hexylcinnamaldehyde. May produce an allergic reaction. |
| Pink Grapefruit: | Contains linalool, limonene and hexylcinnamaldehyde. May produce an allergic reaction. |
| Rose: | Contains geraniol, citronellol, benzyl salicylate, nerol and delta-damascone. May produce an allergic reaction. |
| Springtime: | Contains benzyl salicylate, linalool, citronellol, hexylcinnamaldehyde, butylbenzyl propionaldehyde and amyl cinnamaldehyde. May produce an allergic reaction. |
| Summer Bouquet: | Contains hexylcinnamaldehyde, geraniol, citronellol, linalool and butylbenzyl propionaldehyde. May produce an allergic reaction. |

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| Summer Breeze: | Contains hexylcinnamaldehyde, geraniol, citronellol, linalool and butylbenzyl propionaldehyde. May produce an allergic reaction. |
| Sweetpea: | Contains linalool, benzylideneheptanal, hexylcinnamaldehyde, citronellol, heliotropine, cinnamyl alcohol, butylbenzyl propionaldehyde, cyclamen aldehyde, hydroxycitronellal, isoeugenol and hydroxymethylpentylcyclohexenecarboxaldehyde. May produce an allergic reaction. |
| Tropical Twist: | Contains hexylcinnamaldehyde, linalool and delta-damascone. May produce an allergic reaction. |
| Twilight Garden: | Contains hexylcinnamaldehyde, butylbenzyl propionaldehyde, 4-tert-butylcyclohexyl acetate, linalool and hydroxyisohexyl 3-cyclohexene carboxaldehyde. May produce an allergic reaction. |
| Very Berry: | Contains limonene and citronellol. May produce an allergic reaction. |
| Warm Cinnamon: | Contains eugenol, cinnamaldehyde and coumarin. May produce an allergic reaction. |
| Winter Morning: | Contains cinnamaldehyde, linalool, alpha-methylcinnamaldehyde, eugenol, cineole and isolongifolanone. May produce an allergic reaction. |
| Winter Spice: | Contains limonene, eugenol and linalool. May produce an allergic reaction. |

2.3. Other hazards

None known

SECTION 3: Composition/Information on Ingredients

3.2. Mixtures

| Hazardous Ingredient(s) | %w/w | CAS no EC/List no REACH reg. no | Hazard Classification | H Statements |
|---|--------|--|--|----------------------------|
| <i>Zoflora Base</i> | | | | |
| Ethanol 9002380 | 65-75% | 64-17-5 200-578-6 01-2119457610-43-xxxx | Flam Liq 2 | 225 |
| Benzalkonium chloride 9002397 | <3% | 68424-85-1 270-325-2 01-2119983287-23-xxxx | Ac Tox 4, Sk Cor 1B, Eye Dam 1, Aq Ac 1, Aq Chr 1 | 302, 314, 318, 400, 410 |
| Methanol (denaturant for Ethanol) 9002380 | <3% | 67-56-1 200-659-6 01-2119433307-44-xxxx | Flam Liq 2, Ac Tox 3, STOT SE 1 | 225, 301, 311, 331, 370 |
| <i>Zoflora Perfume Compounds</i> | | | | |
| Perfume compounds (see below) | 1-15 | N/A | | |
| Apple Orchard 9002539 | | | Eye Irr 2, Sk Sens 1, Aq Chr 2 | 319, 317, 411 |
| Bluebell Woods 9002535 | | | Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2 | 315, 319, 317, 411 |
| Bouquet 9002534 | | | Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2 | 315, 319, 317, 411 |

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|----------------------------------|--|--|---|--------------------------|
| Citrus Fresh 9002532 | | | Eye Irr 2, Sk Sens 1, Aq Chr 2 | 319, 317, 411 |
| Country Garden 9002531 | | | Skin Irr 2, Sk Sens 1, Aq Chr 2 | 315, 317, 411 |
| Cranberry & Orange 9002554 | | | Sk Sens 1, Aq Chr 2 | 317, 411 |
| Green Valley 9002695 | | | Eye Irr 2, Sk Sens 1, Aq Chr 3 | 319, 317, 412 |
| Hello Spring 9002555 | | | Eye Irr 2, Sk Sens 1, Aq Chr 2 | 319, 317, 411 |
| Honeysuckle & Jasmine 9002441 | | | Sk Irr 2, Eye Irr 2, Sk Sens 1 | 315, 317, 319 |
| Hyacinth 9002401 | | | Eye Irr 2, Sk Sens 1, Asp Tox 1, Aq Chr 2 | 319, 317, 304, 411 |
| Lavender 9002473 | | | Sk Irr 2, Eye Dam 1, Sk Sens 1, Aq Chr 2 | 315, 318, 317, 411 |
| Lavender Escape 9002676 | | | Sk Irr 2, Eye Dam 1, Sk Sens 1, Aq Chr 2 | 315, 318, 317, 411 |
| Lemon Zing 9002677 | | | Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2 | 315, 319, 317, 411 |
| Linen Fresh 9002533 | | | Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2 | 315, 319, 317, 411 |
| Paradise Peach 9002775 | | | Sk Irr 2, Sk Sens 1, Eye Dam 1, Aq Chr 2 | 315, 317, 318, 411 |
| Pink Grapefruit 9002536 | | | Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2 | 315, 319, 317, 411 |
| Rose 9002469 | | | Sk Irr 2, Eye Dam 1, Sk Sens 1, Aq Chr 3 | 315, 318, 317, 412 |
| Springtime 9002537 | | | Sk Irr 2, Eye Irr 2, Sk Sens 1, Repro Tox 2, Aq Chr 2 | 315, 319, 317, 361f, 411 |
| Summer Bouquet 9002538 | | | Sk Irr 2, Eye Dam 1, Sk Sens 1, Aq Chr 2 | 315, 318, 317, 411 |
| Summer Breeze 9002538 | | | Sk Irr 2, Eye Dam 1, Sk Sens 1, Aq Chr 2 | 315, 318, 317, 411 |
| Sweetpea 9002439 | | | Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 3 | 315, 319, 317, 412 |
| Tropical Twist 9002774 | | | Sk Sens 1, Aq Acu 1, Aq Chr 2 | 317, 400, 411 |
| Twilight Garden 9002529 | | | Sk Sens 1, Repro Tox 2, Aq Chr 2 | 317, 361f, 411 |

| | | | | |
|---------------------------|--|--|--|--------------------|
| Very Berry 9002759 | | | Sk Irr 2, Sk Sens 1, Aq Chr 2 | 315, 317, 411 |
| Warm Cinnamon 9002540 | | | Sk Irr 2, Eye Irr 2, Sk Sens 1 | 315, 319, 317 |
| Winter Morning 9002549 | | | Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2 | 315, 319, 317, 411 |
| Winter Spice 9002530 | | | Eye Irr 2, Sk Sens 1, Aq Chr 2 | 319, 317, 411 |

*Full text of H-Phrases can be found in Section 16.3

SECTION 4: First Aid Measures

4.1. Description of first aid measures

If inhaled: Remove from exposure and get fresh air. Get medical attention.

If on skin: Wash skin thoroughly with water. If irritation persist seek medical advice.

If in eyes: Rinse with plenty of water for at least 10 minutes, keeping the eyelids open if necessary. Get medical attention.

If swallowed: Wash out mouth with water and then drink plenty of water. Do not induce vomiting. Get medical attention.

Other first aid advice: Not applicable.

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

If inhaled: Inhaling large quantities may cause intoxication.

If on skin: May irritate skin.

If in eyes: May irritate eyes.

If swallowed: Swallowing large quantities may cause intoxication.

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

Medical treatment: If not sure about any symptoms contact a doctor or emergency services.

SECTION 5: Firefighting Measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray, foam, dry chemical or carbon dioxide.

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 firefighters

Wear self-contained breathing apparatus and protective clothing.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Non-emergency personnel: Wear appropriate protective clothing (see Section 8). Avoid contact with eyes and skin.

Emergency personnel: Extinguish sources of ignition. Wear appropriate protective clothing (see Section 8). Avoid contact with eyes and skin.

6.2. Environmental precautions

Prevent non-dilute 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.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Handling: Avoid contact with eyes and skin. Handle in well-ventilated area to prevent buildup of vapour. Avoid static discharge and sources of ignition.

Hygiene: Do not eat, drink or smoke while using this product. Wash hands thoroughly after use.

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.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

| Substance | CAS no EC/List no REACH reg. no | LTEL (8 hr TWA ppm) | LTEL (8 hr TWA mg/m ³) | STEL (ppm) | STEL (mg/m ³) | Note |
|---|---|---------------------------|--|---------------|------------------------------|------|
| Ethanol 9002380 | 64-17-5 200-578-6 01-2119457610-43- xxxx | 1000 | - | - | - | |
| Methanol (denaturant for Ethanol) 9002380 | 67-56-1 200-659-6 01-2119433307-44- xxxx | 200 | - | 250 | - | |

8.2. Exposure controls

Engineering controls: Provide adequate ventilation

Eye protection: Chemical goggles or safety glasses

Face protection: Not applicable

Hand protection: Rubber gloves

| | |
|-------------------------|---|
| Skin Protection: | Overalls must be worn when handling large quantities |
| Other protection: | None required |
| Respiratory protection: | If ventilation is insufficient, wear respiratory protection |
| Thermal hazards: | None known |
| Environmental controls: | See Section 6.2 |

SECTION 9: Physical and Chemical Properties

9.1. Information on basic chemical and physical properties

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|----------------------------|----------------------------|
| Appearance: | Clear yellow mobile liquid |
| Odour: | Perfumed |
| Odour threshold: | Not determined |
| PH: | Not determined |
| Melting/freezing point: | -114°C (Ethanol) |
| Initial boiling point: | 78°C (Ethanol) |
| Boiling range: | Not determined |
| Flash point: | 17°C |
| Evaporation rate: | 3.4 (Ethanol) |
| Flammability: | Highly flammable |
| Decomposition temperature: | Not available |
| Viscosity: | 1.52 (Ethanol) |
| Upper explosive limit: | 19% (Ethanol) |
| Lower explosive limit: | 3.3% (Ethanol) |
| Vapour pressure: | 5.81 (Ethanol) |
| Vapour density (Air=1): | 1.59 (Ethanol) |
| Relative density: | 0.85-0.87 at 20°C |
| Solubility: | Dispersible in water |
| Partition coefficient: | 0.32 (Ethanol) |
| Auto ignition temperature: | 365°C |
| Oxidizing properties: | Not determined |
| Explosive properties: | Not determined |

9.2. Other information

Not available.

SECTION 10: Stability and Reactivity

10.1. Reactivity

Stable

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

Possible reaction 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

SECTION 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

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

11.2. Other information

N/A

SECTION 12: Ecological Information

12.1. Toxicity

LC50 (fish) 1-10mg/l 96h – benzalkonium chloride
LC50 (daphnia) <1mg/l 48h – 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

SECTION 13: Disposal Considerations**13.1. Waste treatment methods**

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

SECTION 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

II

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 MARPOL73/78 and the IBC code

N/A

Additional Information:

Product can be transported as Limited Quantity if less than 1 litre receptacle and packed in cardboard boxes up to a 30kg gross mass or shrink-wrapped trays up to a gross mass of 20kg.

SECTION 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

SECTION 16: Other Information**16.1. Reason for change**

Addition of Limited Quantity information.

16.2. Sources of information

Ingredient safety data sheet(s), C&L Inventory and REACH Dossiers.

16.3. Full text of H phrases from section 3

- 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
- 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

16.4. Method of evaluation

Hazards for mixture calculated in accordance with Regulation (EC) No. 1272/2008 (CLP) using the information provided for constituents (ingredients).