

SAFETY DATA SHEET

Compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

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 (GB-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.

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

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

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

Blackcurrant & Jasmine:	Contains 4-tert-butylcyclohexyl acetate, linalool, linalyl acetate and hydroxycitronellol. May produce an allergic reaction.
Bluebell Woods:	Contains linalool, benzyl salicylate, hexylcinnamaldehyde, limonene, citronellol, and linal, May produce an allergic reaction.
Bouquet:	Contains nopyl acetate, hexylcinnamaldehyde, geraniol, cedryl methyl ether, linalyl acetate and linalool. May produce an allergic reaction.
Caribbean Grapefruit & Lime:	Contains linalool, dihydromyrcene and limonene. May produce an allergic reaction.
Coastal Waves:	Contains linalyl acetate, linalool, limonene, tetramethyl acetyloctahydronaphthalenes, citronellol and d-damascone. May produce an allergic reaction.
Coconut and Lime:	Contains hexylcinnamaldehyde, linalool and d-damascone. May produce an allergic reaction.
Cosy Moments:	Contains linalool, limonene, b-caryophyllene and cinnamal. May produce an allergic reaction.
Country Garden:	Contains benzyl salicylate, tetramethyl acetyloctahydronaphthalenes and citronellol. May produce an allergic reaction.
Cranberry and Orange:	Contains d-limonene, eugenol, tetrahydrolinalool, coumarin and cinnamaldehyde. May produce an allergic reaction.
Cucumber & Mint	Contains hexylcinnamaldehyde, linalool, geraniol, tetramethyl acetyloctahydronaphthalenes, citronellol, menthone, geranyl acetate and hexyl salicylate. May produce an allergic reaction.
Cypress and Sea Sage:	Contains linalool, limonene, and benzyl salicylate. May produce an allergic reaction.
Fig & Cedar:	Contains linalool, hexylcinnamaldehyde, linalyl acetate, tetramethyl acetyloctahydronaphthalenes, citronellol and cinnamaldehyde. May produce an allergic reaction.
Fir Needle & Amber:	Contains limonene and methyl cedryl ketone, eugenol and cinnamaldehyde. May produce an allergic reaction.
Frosted Peppermint:	Contains linalool and trans-menthone. 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 Bloom:	Contains linalool, hexylcinnamaldehyde, benzyl salicylate, citronellol, cyclamen aldehyde and limonene. May produce an allergic reaction.
Lavender:	Contains linalyl acetate, cineole, tetrahydrolinalool, tetramethyl acetyloctahydronaphthalenes, dihydromyrcene, d-limonene, linalool. May produce an allergic reaction.
Lavender Fields:	Contains citronellol, linalyl acetate, limonene, linalool and cineole. 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 linalyl acetate. May produce an allergic reaction.

Mandarin & Lime:	Contains linalool, limonene, hexylcinnamaldehyde and linalyl acetate. May produce an allergic reaction.
Midnight Blooms:	Contains linalool, longifolene and benzyl salicylate. May produce an allergic reaction.
Mountain Air:	Contains dihydromyrcene, linalool, hexylcinnamaldehyde, cineole and limonene. May produce an allergic reaction.
Orchid & Patchouli:	Contains benzyl salicylate, linalool, hexylcinnamaldehyde, tetramethyl acetyloctahydronaphthalenes and linalyl acetate. May produce an allergic reaction.
Peony Blush:	Contains hexylcinnamaldehyde, citronellol, linalool, d-limonene, geraniol and d-damascone. May produce an allergic reaction.
Pink Grapefruit:	Contains linalool, limonene and hexylcinnamaldehyde. May produce an allergic reaction.
Raspberry & Juniper Berry:	Contains linalool, tetramethyl acetyloctahydronaphthalenes, hexylcinnamaldehyde, citronellol, tetrahydrolinalool and d-damascone. May cause an allergic reaction.
Rhubarb & Cassis:	Contains 4-tert-butylcyclohexyl acetate, benzyl salicylate, linalyl acetate, hexyl salicylate, limonene and bis(cyclohexylmethyl)ether. May cause an allergic reaction.
Rose Noir:	Contains hexylcinnamaldehyde, linalool, 4-tert-butylcyclohexyl acetate, citronellol, tetramethyl acetyloctahydronaphthalenes and d-damascone. May produce an allergic reaction.
Springtime Fresh:	Contains linalyl acetate, linalool, hexyl cinnamaldehyde, amyl cinnamaldehyde, citronellol, geraniol and cyclamen aldehyde. May produce an allergic reaction.
Summer Berries:	Contains linalool. May produce an allergic reaction.
Summer Breeze:	Contains hexylcinnamaldehyde, geraniol, citronellol and linalool. May produce an allergic reaction.
Sunshine Escapes:	Contains hexylcinnamaldehyde, benzyl salicylate, d-limonene, linalool, 4-tert-butylcyclohexyl acetate, linalyl acetate, tetramethyl acetyloctahydronaphthalenes and citronellol. May produce an allergic reaction.
Sweet Nectarine & Vanilla:	Contains linalool, hexylcinnamaldehyde, 4-tert-butylcyclohexyl acetate, linalyl acetate, citronellol, limonene, (E)-delta-damascone. May cause an allergic reaction.
Sweet Orchard:	Contains linalool, hexylcinnamaldehyde, geranyl acetate, limonene, geraniol and cyclamen aldehyde. May produce an allergic reaction.
Sweet Pea:	Contains geraniol, linalool, dihydromyrcene, citronellol, nerol, and benzyl salicylate. May produce an allergic reaction.
Tropical Palms:	Contains linalool and d-limonene. May cause an allergic reaction.
Tulip & Peach Blossom:	Contains linalool, hexyl cinnamal, geraniol, hexyl salicylate. May produce an allergic reaction.
Vanilla & Amber:	Contains linalool, linalyl acetate, hexylcinnamaldehyde, methyl cedryl ketone, limonene, coumarin. May produce an allergic reaction.
Velvet Poppy:	Contains linalool, citronellol, geraniol, linalyl acetate and d-damascone. May produce an allergic reaction.
Winter Morning:	Contains, linalool, alpha-methylcinnamaldehyde, eugenol, isolongifolanone, cineole and cinnamaldehyde. May produce an allergic reaction.

Winter Spice: Contains d-limonene and eugenol. 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	55-65%	64-17-5 200-578-6 01-2119457610-43-xxxx	Flam Liq 2	225
Benzalkonium chloride 9002397	<2%	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		
Blackcurrant & Jasmine 6030881 <i>no further production, still selling through finished stock</i>			Sk Sens 1, Eye Irr 2, Aq Chr 3	317 319 412
Bluebell Woods 5506664 <i>international only fragrance, under review for new mod</i>			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Bouquet 6099674			Eye Irr 2, Sk Sens 1, Aq Chr 2	319, 317, 411
Caribbean Grapefruit & Lime 6222342			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Coastal Waves 5914814			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Coconut and Lime 5613562			Sk Sens 1, Aq Acu 1, Aq Chr 2	317, 400, 411
Cosy Moments 6228140			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Country Garden 6064542			Sk Sens 1, Aq Chr 2	317, 411
Cranberry & Orange 6142871			Sk Sens 1, Aq Chr 2	317, 411

Hazardous Ingredient(s)	%w/w	CAS no EC/List no REACH reg. no	Hazard Classification	H Statements
Cucumber & Mint 6030551 <i>no further production, still selling through finished stock</i>			Sk Irr 2, Sk Sens 1, Eye Dam 1, Aq Chr 2	315, 317, 318, 411
Cypress & Sea Sage 6030611			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Fig & Cedar 5980698 <i>under review for discontinuation</i>			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Fir Needle & Amber 6044705 <i>no further production, still selling through finished stock</i>			Sk Sens 1, Aq Chr 2	317, 411
Frosted Peppermint 5914833 <i>no further production, still selling through finished stock</i>			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 3	315, 319, 317, 412
Honeysuckle & Jasmine 5521878			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 317, 319, 411
Hyacinth Bloom 5943665			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Lavender 6142873			Sk Irr 2, Eye Dam 1, Sk Sens 1, Aq Chr 2	315, 318, 317, 411
Lavender Fields 6227545			Sk Irr 2, Eye Dam 1, Sk Sens 1, Aq Chr 2	315, 318, 317, 411
Lemon Zing 5599692			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Linen Fresh 6012184			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 3	315, 319, 317, 412
Mandarin & Lime 5907978			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Midnight Blooms 6153909			Eye Irr 2, Sk Sens 1, Aq Chr 2	319, 317, 411
Mountain Air 6064577			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Orchid & Patchouli 6180592			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Peony Blush 6156457 <i>new mod code progressing</i>			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411

Hazardous Ingredient(s)	%w/w	CAS no EC/List no REACH reg. no	Hazard Classification	H Statements
Pink Grapefruit 5944766			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Raspberry & Juniper Berry 6030550			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Rhubarb & Cassis 6030612			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Rose Noir 5913038 <i>international only fragrance, under review for new mod</i>			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Springtime Fresh 6031046			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Summer Berries 5676253			Sk Sens 1	317
Summer Breeze 5370749 <i>new mod required for international</i>			Sk Irr 2, Eye Dam 1, Sk Sens 1, Aq Chr 2	315, 318, 317, 411
Sunshine Escape 6098406			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 3	315, 319, 317, 412
Sweet Nectarine & Vanilla 6222340			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Sweet Orchard 5912619			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Sweet Pea 6048755			Sk Irr 2, Eye Dam 1, Sk Sens 1, Aq Chr 2	315, 318, 317, 411
Tropical Palms 6129350			Sk Irr 2, Eye Dam 1, Sk Sens 1, Aq Chr 2	315, 318, 317, 411
Tulip & Peach Blossom 6194009			Sk Irr 2, Eye Dam 1, Sk Sens 1, Aq Chr 2	315, 318, 317, 411
Vanilla & Amber 6002582			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Velvet Poppy 6031062 <i>no further production, still selling through finished stock</i>			Sk Irr 2, Eye Dam 1, Sk Sens 1, Aq Chr 2	315, 318, 317, 411
Winter Morning 6143592			Sk Sens 1, Aq Chr 3	317, 412
Winter Spice 6142872 <i>new mod code progressing</i>			Sk Sens 1, Aq Chr 2	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.
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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

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, sulfuric 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**

New MODS; Cosy Moments and Orchid & Patchoulli.

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
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 (GB-CLP) using the information provided for constituents (ingredients).