

# 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 eve 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, cedrol methyl ether and geraniol. May

produce an allergic reaction.

Citrus Fresh: Contains limonene. May produce an allergic reaction.

Coconut and Lime Contains hexylcinnamaldehyde, linalool and delta-damascone. 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.

Fig & Cedar: Contains Cinnamaldehyde, linalool, hexylcinnamaldehyde and citronellol. 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.

Mandarin & Lime: Contains linalool, limonene, hexylcinnamaldehyde and linalyl acetate. May produce an

allergic reaction.

Midnight Blooms: Contains linalool and longifolene. May produce an allergic reaction.

Paradise Peach: Contains citronellol, limonene, linalool, nerol and hexylcinnamaldehyde. May produce

an allergic reaction.



Peony Blush: Contains d-damascone, hexylcinnamaldehyde, linalool, citronellol, limonene and

butylphenyl methylpropional. May produce an allergic reaction.

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

reaction.

Rhubarb & Bergamot Contains linalool, limonene, linalyl acetate and geraniol. May produce an allergic

reaction.

Rose: Contains geraniol, citronellol, benzyl salicylate, nerol and delta-damascone. May

produce an allergic reaction.

Rose Noir Contains d-damascone, hexylcinnamaldehyde, linalool, butylphenyl methylpropional,

citronellol and tetramethyl acetyloctahydronaphthalenes. May produce an allergic

reaction.

Secret Garden: Contains linalool, geraniol and tetramethyl acetyloctahydronaphthalenes. May

produce an allergic reaction.

Sparkling Spruce: Contains 4-tert-butylcyclohexyl acetate and pentamethylheptenone. May produce an

allergic reaction.

Springtime: Contains benzyl salicylate, linalool, citronellol, hexylcinnamaldehyde, butylbenzyl

propionaldehyde and amyl cinnamaldehyde. May produce an allergic reaction.

Summer Berries: Contains linalool. May produce an allergic reaction.

Summer Bouquet: Contains hexylcinnamaldehyde, geraniol, citronellol, linalool and butylbenzyl

propionaldehyde. May produce an allergic reaction.

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, cedrol methyl ether 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

3.2. Mixtures  Hazardous Ingredient(s)	%w/w	CAS no	Hazard Classification	H Statements
nazardous ingredient(s)	76W/W	EC/List no REACH reg. no	nazaru Classification	n Statements
Zoflora Base				
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
Zoflora Perfume Compounds				1
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 9002918			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Citrus Fresh 9002532			Eye Irr 2, Sk Sens 1, Aq Chr 2	319, 317, 411
Coconut and Lime 9002774			Sk Sens 1, Aq Acu 1, Aq Chr 2	317, 400, 411
Country Garden 9002922			Skin Irr 2, Sk Sens 1, Aq Chr 2	315, 317, 411
Cranberry & Orange 9002554			Sk Sens 1, Aq Chr 2	317, 411
Fig & Cedar 9002894			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 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

Hazardous Ingredient(s)	%w/w	CAS no EC/List no REACH reg. no	Hazard Classification	H Statements
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 9002915			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Mandarin & Lime 9002797			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Midnight Blooms 9002796			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
Peony Blush 9002891			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Pink Grapefruit 9002536			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Rhubarb & Bergamot 9002893			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
Rose Noir 9002895			Sk Irr 2, Eye Irr 2, Sk Sens 1, Aq Chr 2	315, 319, 317, 411
Secret Garden 9002795			Sk Irr 2, Sk Sens 1, Eye Dam 1, Aq Chr 2	315, 317, 318, 411
Sparkling Spruce 9002858			Sk Sens 1, Aq Chr 2	317, 411
Springtime 9002537			Sk Irr 2, Eye Irr 2, Sk Sens 1, Repro Tox 2, Aq Chr 2	315, 319, 317, 361f, 411
Summer Berries 9002794			Sk Sens 1	317
Summer Bouquet 9002538			Sk Irr 2, Eye Dam 1, Sk Sens 1, Aq Chr 2	315, 318, 317, 411

Hazardous Ingredient(s)	%w/w	CAS no EC/List no REACH reg. no	Hazard Classification	H Statements
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 Irr 2, Sk Sens 1, Repro Tox 2, Aq Chr 2	315, 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 9002913			Eye Irr 2, Sk Sens 1, Aq Chr 2	319, 317, 411

<sup>\*</sup>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/m³)	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
Ethanol 9002380	64-17-5 200-578-6 01-2119457610-43- xxxx	1000	-	-	-	
Methanol (denaturant for Ethanol)	67-56-1 200-659-6	200	-	250	-	



9002380	01-2119433307-44-			
	xxxx			

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, 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

Ш

# 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

Update to perfume compounds for Bouquet (CRN 17488), Country Garden (CRN 17487), Linen Fresh (CRN 17489) & Winter Spice (CRN 17491)

#### 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
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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).