

PRODUCT NAME: ZOFLORA DISINFECTANT

REVISION to section 2

SAFETY DATA SHEET

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1. COMPANY AND PRODUCT IDENTIFICATION

THORNTON & ROSS LTD	
Linthwaite Laboratories, Huddersfield HD7 5QH	
Tel: 01484 842217 Fax 01484 847301	
PRODUCT NAME	ZOFLORA (all perfumes)
CHEMICAL FAMILY	ALCOHOLIC SOLUTION OF A QUATERNARY AMMONIUM COMPOUND.
INTENDED USE	Disinfectant

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Substance</u>	<u>CAS No.</u>	<u>% (w/w)</u>	<u>Symbols</u>	<u>R Phrases</u>
Benzalkonium Chloride	68989-00-4	< 5	C,N	22, 34,50
Ethanol	64-17-5	65 – 70	F	11
Methanol	67-56-1	< 3	F, T	11, 23/24/25, 39/23/24/25
Perfume (Bouquet)	N/A	10 – 15	Xi	36/38, 43, 52/53
(Citrus)			-	52/53
(Cool & Fresh)			-	52/53, 65
(Flowershop)			Xi	36/38, 43, 52/53
(Hyacinth)			Xn	36, 43, 65, 52/53
(Lilac)			Xi	43, 52/53
(Rose)			Xi	36/38, 43, 52/53
(Springtime)			Xi	43, 52/53
(Sweetpea)			Xi	43
(Wallflower)			Xi	43, 52/53

3. HAZARD IDENTIFICATION

All fragrances are classified as **highly flammable and harmful if swallowed**.

In addition the following fragrances are classified as irritant :-

Bouquet – **Irritating to eyes and skin**.

Flowershop – **Irritating to eyes and skin**.

Hyacinth – **Irritating to eyes**.

Rose – **Irritating to eyes and skin, may cause sensitisation by skin contact**.

Springtime – **May cause sensitisation by skin contact**.

Sweetpea - **May cause sensitisation by skin contact**.

4. FIRST AID MEASURES

PRODUCT IN EYE	Immediately flood with copious quantities of water for at least 10 minutes holding the eye open if necessary. Obtain medical attention.
PRODUCT INGESTED	Wash out mouth with water. Drink plenty of water. Do not induce vomiting. Obtain immediate medical attention.
SKIN CONTACT	Wash off with soap and warm water. If irritation persists seek medical advice.
INHALATION	Remove to fresh air, keep warm and at rest. Obtain medical attention.

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	Extinguish with water spray, foam, dry powder or carbon dioxide.
UNSUITABLE EXTINGUISHING MEDIA	Keep containers cool with water spray. Do not use water jets.
HAZARDOUS/COMBUSTION DECOMPOSITION PRODUCTS	Carbon dioxide/monoxide, alcohol fumes.
PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS	Fire fighters should wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Extinguish sources of ignition. Wear suitable protective equipment. Absorb onto an inert material eg. sand or earth and transfer to suitable containers for subsequent disposal by a licensed waste contractor. If size of spill warrants and has contaminated watercourses, drains or vegetation, advise appropriate authorities.

7. HANDLING AND STORAGE

HANDLING	Always handle in a well-ventilated area to prevent build up of vapour. Avoid static discharge and naked lights.
STORAGE	Most plastics, metals and glass. In well closed containers in a cool place, away from sources of ignition. Ventilation recommended.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS	Long term occupational exposure limit 1000ppm as ethanol. LTEL 200 ppm, STEL 250 ppm as methanol
PERSONAL PROTECTION	
Hand Protection	Rubber gloves.
Eye Protection	Goggles/safety glasses.
Skin Protection	Overalls when handling in an industrial situation.
Respiratory Protection	Self contained breathing apparatus may be necessary in areas of high concentrations of vapour.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	A clear, yellow mobile liquid.
ODOUR	Spirituos and perfumed.
FLASH POINT	17°C
WT/ML AT 20°C	0.87
SOLUBILITY	Miscible with water, ether, chloroform, acetone, and glycerol.
	78°C
BOILING POINT	365°C
AUTO-IGNITION TEMPERATURE	Lower limit 3.5% by volume Upper limit 19% by volume
EXPLOSIVE LIMITS IN AIR	

10. STABILITY AND REACTIVITY

STABILITY	Stable.
INCOMPATIBLE MATERIALS	Will react violently with concentrated nitric and sulphuric acids.

11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS OF EXPOSURE	
On Eyes	
On Skin	Will cause severe stinging sensation and may cause inflammation.
Ingestion	May cause irritation. Will cause smarting on cuts and abrasions. May cause sensitisation. Will cause intoxication and coma in severe cases. Accidental ingestion of a significant quantity is however considered an unlikely occurrence due to the bitter nature of the product.
Inhalation	Vapour may cause irritation of the mucous membranes.
LD50	Intoxication leading to unconsciousness. Not known.

12. ECOLOGICAL INFORMATION

Based on the ingredients, the product is not classified as harmful to the environment.

13. DISPOSAL CONSIDERATIONS

Liaise with the local Waste Regulation Authority to arrange disposal.

14. TRANSPORT INFORMATION

U N No AND CLASSIFICATION

UN No 1170 class 3 PG II.

15a. REGULATORY INFORMATION

(CITRUS FRESH , COOL & FRESH, LAVENDER, LILAC AND WALLFLOWER PERFUMES)

HEALTH AND SAFETY INFORMATION

Classification: Highly Flammable, Harmful

Risk phrases:

R11 Highly Flammable

R22 Harmful if swallowed

Safety phrases:

S2 Keep out of the reach of children

S16 Keep away from sources of ignition - No smoking

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

ASSESSMENT

The information contained in this safety data sheet does not constitute the users own assessment of workplace risk.

15b. REGULATORY INFORMATION

(HYACINTH PERFUME)

HEALTH AND SAFETY INFORMATION

Classification: Highly Flammable, Harmful, Irritant

Risk phrases:

R11 Highly Flammable

R22 Harmful if swallowed

R36 Irritating to eyes

Safety phrases:

S2 Keep out of the reach of children

S16 Keep away from sources of ignition - No smoking

S25 Avoid contact with eyes

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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

ASSESSMENT

The information contained in this safety data sheet does not constitute the users own assessment of workplace risk.

15c. REGULATORY INFORMATION

(BOUQUET AND FLOWERSHOP PERFUMES)

HEALTH AND SAFETY INFORMATION

Classification: Highly Flammable, Harmful, Irritant

Risk phrases:

R11 Highly Flammable

R22 Harmful if swallowed

R36/38 Irritating to eyes and skin

Safety phrases:

S2 Keep out of the reach of children

S16 Keep away from sources of ignition - No smoking

S25 Avoid contact with eyes

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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

ASSESSMENT

The information contained in this safety data sheet does not constitute the users own assessment of workplace risk.

15d. REGULATORY INFORMATION

(ROSE PERFUME)

HEALTH AND SAFETY INFORMATION

Classification: Highly Flammable, Harmful, Irritant

Risk phrases:

R11 Highly Flammable

R22 Harmful if swallowed

R36/38 Irritating to eyes and skin

R43 May cause sensitisation by skin contact

Safety phrases:

S2 Keep out of the reach of children

S16 Keep away from sources of ignition - No smoking

S24/25 Avoid contact with skin and eyes

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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

ASSESSMENT

The information contained in this safety data sheet does not constitute the users own assessment of workplace risk.

15e. REGULATORY INFORMATION

(SPRINGTIME AND SWEETPEA PERFUMES)

HEALTH AND SAFETY INFORMATION

Classification: Highly Flammable, Harmful, Irritant

Risk phrases:

R11 Highly Flammable

R22 Harmful if swallowed

R43 May cause sensitisation by skin contact

Safety phrases:

S2 Keep out of the reach of children

S16 Keep away from sources of ignition - No smoking

S24 Avoid contact with skin.

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

ASSESSMENT

The information contained in this safety data sheet does not constitute the users own assessment of workplace risk.

16. OTHER INFORMATION

SOURCES OF DATA

Manufacturing Documents

Suppliers Safety Data Sheets (ingredients)

Risk phrases of ingredients given in section 2

R11 Highly flammable

R22 Harmful if swallowed

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed

R34 Cause burns

R36 Irritating to eyes

R38 Irritating to skin

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.

R52/53 Harmful to aquatic organisms, may cause long term effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.