# SAFETY DATA SHEET Lyreco Office Wet Wipes

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

### 1. Identification

Product identifier

Product name Lyreco Office Wet Wipes

Product number 3.338.917, ZP

Internal identification AOWW070LYR\_EU

Recommended use of the chemical and restrictions on use

**Application** Cleaning wipes.

Uses advised against No specific uses advised against are identified.

Details of the supplier of the safety data sheet

Supplier LYRECO

Rue du 19 mars 1962, F-59770,

Marly, France

msds@lyreco.com +33 (0) 3 27 23 64 00

**Emergency telephone number** 

Emergency telephone +1 202 464 2554 (USA only)

+44 1235 239670

# 2. Hazard(s) identification

### Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Aquatic Acute 3 - H402

Label elements

Hazard statements H402 Harmful to aquatic life.

**Precautionary statements** P273 Avoid release to the environment.

P501 Dispose of contents/ container in accordance with national regulations.

P102 Keep out of reach of children.

### Other hazards

This product does not contain any substances classified as PBT or vPvB.

# 3. Composition/information on ingredients

# Mixtures

# Lyreco Office Wet Wipes

2-Butoxyethanol	<1%
CAS number: 111-76-2	
Clossification	
Classification	
Acute Tox. 4 - H302	
Acute Tox. 4 - H312	
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
Eye Irrit. 2A - H319	

1-Methoxy-2-propanol
CAS number: 107-98-2

Classification
Flam. Liq. 3 - H226
STOT SE 3 - H336

# Benzyl-C12-14-alkyldimethylammonium chlorides CAS number: — M factor (Acute) = 10 M factor (Chronic) = 1 Classification Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

Pin-2(3)-ene	<1%
CAS number: 80-56-8	
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1B - H317 Asp. Tox. 1 - H304	

Citral	<1%
CAS number: 5392-40-5	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1B - H317	

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Ethanol <1%

CAS number: 64-17-5

Classification

Flam. Liq. 2 - H225

2,6-Di-tert-butyl-p-cresol

CAS number: 128-37-0

M factor (Acute) = 1 M factor (Chronic) = 1

Classification

Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

Pin-2(10)-ene <1%

CAS number: 127-91-3

M factor (Acute) = 1 M factor (Chronic) = 1

Classification

Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1B - H317 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

The full text for all hazard statements is displayed in Section 16.

**Composition comments** None of the ingredients are required to be listed.

### 4. First-aid measures

### Description of first aid measures

personnel.

**Inhalation** No specific recommendations. If throat irritation or coughing persists, proceed as follows.

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if any

discomfort continues.

**Ingestion** No specific recommendations. If throat irritation or coughing persists, proceed as follows.

Rinse mouth. Get medical attention if any discomfort continues.

Skin Contact No specific recommendations. Rinse with water. Get medical attention if any discomfort

continues.

**Eye contact** Rinse with water. Get medical attention if any discomfort continues.

**Protection of first aiders**Use protective equipment appropriate for surrounding materials.

Most important symptoms and effects, both acute and delayed

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

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**Inhalation** No specific symptoms known. Spray/mists may cause respiratory tract irritation.

Ingestion No specific symptoms known. May cause discomfort if swallowed.

**Skin contact** No specific symptoms known. May cause discomfort.

Eye contact No specific symptoms known. May be slightly irritating to eyes.

### Indication of immediate medical attention and special treatment needed

**Specific treatments** No special treatment required.

# 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing media The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry

powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

# Special hazards arising from the substance or mixture

**Specific hazards**Containers can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion

products

Thermal decomposition or combustion products may include the following substances:

Harmful gases or vapors.

### Advice for firefighters

Protective actions during

firefighting

Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use

water spray to disperse vapors and protect men stopping the leak.

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will

provide a basic level of protection for chemical incidents.

# 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** No specific recommendations. For personal protection, see Section 8.

**Environmental precautions** 

**Environmental precautions** Avoid discharge to the aquatic environment.

# Methods and material for containment and cleaning up

**Methods for cleaning up**Reuse or recycle products wherever possible. Absorb spillage to prevent material damage.

Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

Dispose of contents/container in accordance with national regulations.

**Reference to other sections** For personal protection, see Section 8.

# 7. Handling and storage

# Precautions for safe handling

# Lyreco Office Wet Wipes

Usage precautions Keep out of the reach of children. Read and follow manufacturer's recommendations. Wear

> protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid

discharge to the aquatic environment.

Advice on general occupational hygiene Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash

before reuse. Wash contaminated clothing before reuse.

# Conditions for safe storage, including any incompatibilities

Storage precautions No specific recommendations.

Storage class Unspecified storage.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

# 8. Exposure Controls/personal protection

### Control parameters

### Occupational exposure limits

### 2-Butoxyethanol

Long-term exposure limit (8-hour TWA): OSHA 50 ppm 240 mg/m<sup>3</sup>

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm 97 mg/m<sup>3</sup>

A3

# 1-Methoxy-2-propanol

Long-term exposure limit (8-hour TWA): ACGIH 50 ppm 184 mg/m<sup>3</sup> Short-term exposure limit (15-minute): ACGIH 100 ppm 369 mg/m<sup>3</sup>

A4

# Pin-2(3)-ene

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm 112 mg/m<sup>3</sup>

A4. DSens

### Citral

Long-term exposure limit (8-hour TWA): ACGIH 5 ppm 32 mg/m³ inhalable fraction and vapor

A4, DSens, Sk

### **Ethanol**

Long-term exposure limit (8-hour TWA): OSHA 1000 ppm 1900 mg/m<sup>3</sup> Short-term exposure limit (15-minute): ACGIH 1000 ppm 1880 mg/m<sup>3</sup>

# 2,6-Di-tert-butyl-p-cresol

Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m<sup>3</sup> inhalable fraction and vapor

### Pin-2(10)-ene

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm 112 mg/m³

OSHA = Occupational Safety and Health Administration.

ACGIH = American Conference of Governmental Industrial Hygienists.

Sk = Danger of cutaneous absorption.

A4 = Not Classifiable as a Human Carcinogen.
DSens = Dermal sensitizer.

A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.

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2-Butoxyethanol (CAS: 111-76-2)

Immediate danger to life

and health

700 ppm

Ethanol (CAS: 64-17-5)

Immediate danger to life

and health

3300 ppm

**Exposure controls** 

Appropriate engineering

controls

No specific ventilation requirements.

**Eye/face protection**No specific eye protection required during normal use. Large Spillages: Eyewear complying

with an approved standard should be worn if a risk assessment indicates eye contact is

possible.

**Hand protection** No specific hand protection recommended.

Hygiene measures Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

Wash contaminated clothing before reuse.

Respiratory protection No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is

inadequate, suitable respiratory protection must be worn.

**Environmental exposure** 

controls

Odor

Not regarded as dangerous for the environment.

### 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

**Appearance** Liquid-impregnated wipe.

pH Not available.

Melting point Not available.

Initial boiling point and range Not available.

Flash point Not available.

**Evaporation rate** Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or

explosive limits

Not available.

Characteristic.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies) Not available.

oolabiity (100)

Partition coefficient Not available.

Auto-ignition temperature Not available.

**Decomposition Temperature** Not available.

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Viscosity Not available.

**Explosive properties** Not considered to be explosive.

Oxidizing properties Does not meet the criteria for classification as oxidizing.

10. Stability and reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

Stable at normal ambient temperatures and when used as recommended. Stable under the

prescribed storage conditions.

Possibility of hazardous

reactions

No potentially hazardous reactions known.

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

Materials to avoid No specific material or group of materials is likely to react with the product to produce a

hazardous situation.

Hazardous decomposition

products

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

### 11. Toxicological information

### Information on toxicological effects

**Toxicological effects** Not regarded as a health hazard under current legislation.

Acute toxicity - oral

Notes (oral LD₅o) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC50) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitization

**Respiratory sensitization** Based on available data the classification criteria are not met.

Skin sensitization

**Skin sensitization** Based on available data the classification criteria are not met.

Germ cell mutagenicity

**Genotoxicity - in vitro**Based on available data the classification criteria are not met.

Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

IARC carcinogenicity Contains a substance/a group of substances which may cause cancer. IARC Group 1

Carcinogenic to humans.

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Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity -

Based on available data the classification criteria are not met.

development

Specific target organ toxicity - single exposure

**STOT - single exposure**Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

dependent on the concentration and the length of exposure.

**Inhalation** No specific symptoms known. Spray/mists may cause respiratory tract irritation.

Ingestion No specific symptoms known. May cause discomfort if swallowed.

**Skin Contact** No specific symptoms known. May cause discomfort.

Eye contact No specific symptoms known. May be slightly irritating to eyes.

Route of entry Ingestion Inhalation Skin and/or eye contact

**Target Organs** No specific target organs known.

Toxicological information on ingredients.

2-Butoxyethanol

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

1,746.0

Rat

Species

Notes (oral LD₅o) REACH dossier information. Harmful if swallowed.

**ATE oral (mg/kg)** 1,746.0

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) Harmful in contact with skin.

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

Notes (inhalation LC50) Harmful if inhaled.

ATE inhalation (vapours

mg/l)

11.0

Skin corrosion/irritation

Animal data Dose: 0.5 mL, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2).

Oedema score: No oedema (0). REACH dossier information. Irritating.

Serious eye damage/irritation

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Serious eye damage/irritation

Dose: 0.1 mL, 24 hours, Rabbit Causes serious eye irritation.

Skin sensitization

Skin sensitization Guinea pig maximization test (GPMT) - Guinea pig: Not sensitizing. REACH dossier

information. Based on available data the classification criteria are not met.

Germ cell mutagenicity

Gene mutation: Negative. REACH dossier information. Based on available data the

classification criteria are not met.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information. Based on available

data the classification criteria are not met.

Carcinogenicity

Carcinogenicity NOAEC 125 ppm, Inhalation, Mouse REACH dossier information. Based on

available data the classification criteria are not met.

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity -

fertility

Two-generation study - NOAEL 720 mg/kg/day, Oral, Mouse P REACH dossier

information. Based on available data the classification criteria are not met.

Reproductive toxicity - development

Maternal toxicity: - NOAEL: 50 ppm, Inhalation, Rabbit REACH dossier information.

Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL <69 mg/kg/day, Oral, Rat REACH dossier information. Based on available

data the classification criteria are not met.

1-Methoxy-2-propanol

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

3,739.0

**Species** Rat

Notes (oral LD50) LD50 3739 mg/kg, Oral, Rat REACH dossier information. Based on available data

the classification criteria are not met.

**ATE oral (mg/kg)** 3,739.0

Acute toxicity - dermal

Notes (dermal LD₅o) LD₅o >2000 mg/kg, Dermal, Rat REACH dossier information. Based on available

data the classification criteria are not met.

Skin corrosion/irritation

Animal data Dose: 0.5 mL, 4 hours, Rabbit Erythema/eschar score: No erythema (0). Oedema

score: No oedema (0). REACH dossier information. Based on available data the

classification criteria are not met.

Skin sensitization

Skin sensitization Guinea pig maximization test (GPMT) - Guinea pig: Not sensitizing. REACH dossier

information. Based on available data the classification criteria are not met.

Germ cell mutagenicity

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Gene mutation: Negative. REACH dossier information. Based on available data the

classification criteria are not met.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information. Based on available

data the classification criteria are not met.

Carcinogenicity

Carcinogenicity NOEL 3000 ppm, Inhalation, Mouse REACH dossier information. Based on

available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity -

fertility

Two-generation study - NOAEL 1000 ppm, Inhalation, Rat F1 REACH dossier

information. Based on available data the classification criteria are not met.

Reproductive toxicity - development

Teratogenicity: - NOAEL: 1500 ppm, Inhalation, Rat REACH dossier information.

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure STOT SE 3 - H336 May cause drowsiness or dizziness. REACH dossier

information.

Target organs Central nervous system Brain

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 919 mg/kg/day, Oral, Rat REACH dossier information. Based on available

data the classification criteria are not met.

Sodium N-lauroylsarcosinate

Acute toxicity - oral

Notes (oral LD₅o) LD₅o >5000 mg/kg, Oral, Rat REACH dossier information. Based on available data

the classification criteria are not met.

Acute toxicity - inhalation

Acute toxicity inhalation

(LC50 dust/mist mg/l)

0.051

**Species** Rat

Notes (inhalation LC<sub>50</sub>) Supplier's information. Fatal if inhaled.

ATE inhalation (dusts/mists mg/l)

0.051

Skin corrosion/irritation

Animal data Irritating

Serious eye damage/irritation

Serious eye damage/irritation

Causes serious eye damage.

Skin sensitization

**Skin sensitization** Guinea pig maximization test (GPMT) - Guinea pig: Not sensitizing. REACH dossier

information. Based on available data the classification criteria are not met.

Germ cell mutagenicity

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Gene mutation: Negative. REACH dossier information. Based on available data the

classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - development

Developmental toxicity: - NOAEL: >250 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 30 mg/kg/day, Oral, Rat REACH dossier information. Based on available

data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not relevant. Solid.

Benzyl-C12-14-alkyldimethylammonium chlorides

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

795.0

Species Rat

Notes (oral LD₅o) REACH dossier information. Based on available data the classification criteria are

not met.

ATE oral (mg/kg) 795.0

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> 3412.5 mg/kg, Dermal, Rabbit REACH dossier information. Based on available

data the classification criteria are not met.

Skin corrosion/irritation

Animal data Dose: 0.5 mL, 4 hours, Rabbit REACH dossier information. Corrosive.

Serious eye damage/irritation

Serious eye

Corrosive to skin. Corrosivity to eyes is assumed.

damage/irritation
Skin sensitization

Skin sensitization Buehler test - Guinea pig: Not sensitizing. REACH dossier information. Based on

available data the classification criteria are not met.

Germ cell mutagenicity

**Genotoxicity - in vitro** Chromosome aberration: Negative. REACH dossier information. Based on available

data the classification criteria are not met.

Carcinogenicity

Carcinogenicity NOAEL >2000 ppm, Oral, Rat REACH dossier information. Based on available data

the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity -

fertility

Two-generation study - NOAEL 61 mg/kg/day, Oral, Rat P REACH dossier information. Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not relevant. Solid.

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### Fatty alcohol ethoxylate

Acute toxicity - oral

Acute toxicity oral (LD₅o

0

384.0

mg/kg)

**Species** Guinea pig

Notes (oral LD50) Harmful if swallowed.

ATE oral (mg/kg) 384.0

Serious eye damage/irritation

Serious eye

Causes serious eye damage.

damage/irritation

d-Limonene

Acute toxicity - oral

Notes (oral LD₅o) LD₅o >2000 mg/kg, Oral, Rat REACH dossier information. Based on available data

the classification criteria are not met.

Skin corrosion/irritation

Animal data Dose: 0.5 mL, 4 hours, Rabbit REACH dossier information. Irritating.

Serious eye damage/irritation

Serious eye

damage/irritation

Dose: 0.1 mL, 7 days, Rabbit REACH dossier information. Not irritating.

Skin sensitization

Skin sensitization Local Lymph Node Assay (LLNA) - Mouse: Sensitizing. REACH dossier

information.

Germ cell mutagenicity

**Genotoxicity - in vitro**Gene mutation: Negative. REACH dossier information. Based on available data the

classification criteria are not met.

Genotoxicity - in vivo DNA damage and/or repair: Negative. REACH dossier information. Based on

available data the classification criteria are not met.

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 1650 mg/kg/day, Oral, Mouse REACH dossier information. Based on

available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard 1.003 cSt @ 25°C/77°F REACH dossier information. Aspiration hazard if

swallowed.

Pin-2(3)-ene

Skin corrosion/irritation

Human skin model test Cell Viability 39.6% 15 minutes REACH dossier information. Irritating.

Serious eye damage/irritation

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Serious eye damage/irritation

Dose: 0.1 mL, 8 days, Rabbit Based on available data the classification criteria are

not met.

Skin sensitization

Skin sensitization Local Lymph Node Assay (LLNA) - Mouse: Sensitizing. REACH dossier

information.

Germ cell mutagenicity

Gene mutation: Negative. REACH dossier information. Based on available data the

classification criteria are not met.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information. Based on available

data the classification criteria are not met.

Aspiration hazard

**Aspiration hazard** Aspiration hazard if swallowed.

Linalool

Acute toxicity - oral

Notes (oral LD₅o >2000 mg/kg, Oral, Mouse REACH dossier information. Based on available

data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> 5610 mg/kg, Dermal, Rabbit REACH dossier information. Based on available

data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) LC<sub>50</sub> > 3.2 mg/l, Inhalation, Mouse REACH dossier information. Based on available

data the classification criteria are not met.

Skin corrosion/irritation

Animal data Dose: 0.5 mL, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2).

Oedema score: Very slight oedema - barely perceptible (1). REACH dossier

information. Irritating.

Serious eye damage/irritation

Serious eye

damage/irritation

Dose: 0.1 mL, 24 hours, Rabbit Causes serious eye irritation.

Skin sensitization

**Skin sensitization** Sensitizing.

Germ cell mutagenicity

**Genotoxicity - in vitro**Gene mutation: Negative. REACH dossier information. Based on available data the

classification criteria are not met.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information. Based on available

data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity -

fertility

Screening - NOAEL 365 mg/kg/day, Oral, Rat P REACH dossier information. Based

on available data the classification criteria are not met.

Reproductive toxicity - development

Developmental toxicity: - NOAEL: 1000 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

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### p-Menth-1-en-8-ol

Acute toxicity - oral

Notes (oral LD50) LD50 4300 mg/kg, Oral, Rat REACH dossier information. Based on available data

the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> >2000 mg/kg, Dermal, Rat REACH dossier information. Based on available

data the classification criteria are not met.

Skin corrosion/irritation

Animal data Dose: 0.5 mL, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2).

Oedema score: Slight oedema - edges of area well defined by definite raising (2).

REACH dossier information. Irritating.

Serious eye damage/irritation

Serious eye

damage/irritation

Dose: 0.1 mL, 24 hours, Rabbit Causes serious eye irritation.

Skin sensitization

Skin sensitization Local Lymph Node Assay (LLNA) - Rat: Not sensitizing. REACH dossier

information. Based on available data the classification criteria are not met.

Germ cell mutagenicity

Gene mutation: Negative. REACH dossier information. Based on available data the

classification criteria are not met.

Reproductive toxicity

Reproductive toxicity -

fertility

Screening - NOAEL >750 mg/kg/day, Oral, Rat P REACH dossier information.

Based on available data the classification criteria are not met.

Reproductive toxicity -

development

Developmental toxicity:, Maternal toxicity: - NOAEL: >250 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are

not met.

Linalyl acetate

Acute toxicity - oral

Notes (oral LD₅o) LD₅o >9000 mg/kg, Oral, Rat REACH dossier information. Based on available data

the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> >5000 mg/kg, Dermal, Rabbit REACH dossier information. Based on available

data the classification criteria are not met.

Skin corrosion/irritation

Animal data Dose: 0.5 mL, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2).

Oedema score: Slight oedema - edges of area well defined by definite raising (2).

REACH dossier information. Irritating.

Serious eye damage/irritation

Serious eye damage/irritation

Dose: 0.05 mL, 8 days, Rabbit Causes serious eye irritation.

Germ cell mutagenicity

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Genotoxicity - in vitro Chromosome aberration: Negative. REACH dossier information. Based on available

data the classification criteria are not met.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information. Based on available

data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity -

fertility

Screening - NOAEL 500 mg/kg/day, Oral, Rat P REACH dossier information. Based

on available data the classification criteria are not met.

Reproductive toxicity - development

Developmental toxicity: - LD₅o: 1000 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Citral

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> 6800 mg/kg, Oral, Rat REACH dossier information. Based on available data

the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD50) LD50 > 2000 mg/kg, Dermal, Rat REACH dossier information. Based on available

data the classification criteria are not met.

Skin corrosion/irritation

Animal data Dose: 0.5 mL, 15 minutes, Rabbit Erythema/eschar score: Well defined erythema

(2). Oedema score: Slight oedema - edges of area well defined by definite raising

(2). REACH dossier information. Highly irritating.

Serious eye damage/irritation

Serious eye

damage/irritation

Dose: 0.1 mL, 8 days, Rabbit Causes serious eye irritation.

Skin sensitization

Skin sensitization Guinea pig maximization test (GPMT) - Guinea pig: Sensitizing. REACH dossier

information.

Germ cell mutagenicity

Gene mutation: Negative. REACH dossier information. Based on available data the

classification criteria are not met.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information. Based on available

data the classification criteria are not met.

Carcinogenicity

Carcinogenicity NOAEL 100 mg/kg/day, Oral, Rat REACH dossier information. Based on available

data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity -

fertility

Screening - NOAEL 1000 mg/kg/day, Oral, Rat P REACH dossier information.

Based on available data the classification criteria are not met.

Reproductive toxicity - development

Developmental toxicity: - NOAEL: 200 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Ethanol

**Toxicological effects** Not regarded as a health hazard under current legislation.

# Lyreco Office Wet Wipes

Acute toxicity - oral

LD₅o 10470 mg/kg, Oral, Rat REACH dossier information. Based on available data Notes (oral LD₅₀)

the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC50) LD<sub>50</sub> 124.7 mg/l, Inhalation, Rat REACH dossier information. Based on available

data the classification criteria are not met.

Skin corrosion/irritation

Animal data Dose: 0.2 mL, 24 hours, Rabbit Primary dermal irritation index: 0 REACH dossier

information. Based on available data the classification criteria are not met.

Skin sensitization

Skin sensitization Local Lymph Node Assay (LLNA) - Mouse: Not sensitizing. REACH dossier

information. Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative. REACH dossier information. Based on available data the

classification criteria are not met.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information. Based on available

data the classification criteria are not met.

Carcinogenicity

IARC carcinogenicity IARC Group 1 Carcinogenic to humans.

Reproductive toxicity

Reproductive toxicity -

fertility

Two-generation study - NOAEL 15%, Oral, Mouse REACH dossier information.

Maternal toxicity: - NOAEL: 16000 ppm, Inhalation, Rat REACH dossier information.

Based on available data the classification criteria are not met.

Reproductive toxicity development

Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure LOAEL ~4000 mg/kg, Oral, Rat REACH dossier information. Based on available

data the classification criteria are not met.

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

64 0

Rat **Species** 

ATE oral (mg/kg) 64.0

Acute toxicity - dermal

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l)

0.33

**Species** Rat

# Lyreco Office Wet Wipes

ATE inhalation (dusts/mists mg/l)

0.33

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Skin corrosion/irritation

**Skin corrosion/irritation** Corrosive to skin., Causes burns.

Serious eye damage/irritation

Serious eye

Corrosivity to eyes is assumed.

damage/irritation
Skin sensitization

Skin sensitization

Epidemiological studies have shown evidence of skin sensitization.

Germ cell mutagenicity

**Genotoxicity - in vitro**This substance has no evidence of mutagenic properties.

**Genotoxicity - in vivo** This substance has no evidence of mutagenic properties.

Carcinogenicity

**Carcinogenicity** No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Reproductive toxicity -

fertility

No evidence of reproductive toxicity in animal studies.

2,6-Di-tert-butyl-p-cresol

**Toxicological effects** Not regarded as a health hazard under current legislation.

Acute toxicity - oral

Notes (oral LD₅o) LD₅o >2930 mg/kg, Oral, Rat REACH dossier information. Based on available data

the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅o) LD₅o >2000 mg/kg, Dermal, Rat REACH dossier information. Based on available

data the classification criteria are not met.

Skin corrosion/irritation

Animal data Dose: 0.5 mL, 24 hours, Rabbit Erythema/eschar score: Very slight erythema -

barely perceptible (1). Oedema score: No oedema (0). REACH dossier information.

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation

Dose: 100 mg, 72 hours, Rabbit REACH dossier information. Based on available

data the classification criteria are not met.

Germ cell mutagenicity

**Genotoxicity - in vitro**Gene mutation: Negative. REACH dossier information. Based on available data the

classification criteria are not met.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information. Based on available

data the classification criteria are not met.

Carcinogenicity

Carcinogenicity NOAEL 25 mg/kg/day, Oral, Rat REACH dossier information. Based on available

data the classification criteria are not met.

# Lyreco Office Wet Wipes

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity -

fertility

Two-generation study - NOAEL 500 mg/kg/day, Oral, Rat P REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity - development

Developmental toxicity: - NOAEL: 100 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 25 mg/kg/day, Oral, Rat REACH dossier information. Based on available

data the classification criteria are not met.

Pin-2(10)-ene

Skin corrosion/irritation

Human skin model test Cell Viability 38.5% 15 minutes REACH dossier information. Irritating.

Serious eye damage/irritation

Serious eye Dose: 0.1 mL, 8 days, Rabbit Based on available data the classification criteria are

damage/irritation not met.

Skin sensitization

**Skin sensitization** Local Lymph Node Assay (LLNA) - Mouse: Sensitizing. REACH dossier

information.

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative. REACH dossier information. Based on available data the

classification criteria are not met.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information. Based on available

data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity -

development

Fetotoxicity: - NOAEL: 250 mg/kg/day, Oral, Rat REACH dossier information.

Based on available data the classification criteria are not met.

Aspiration hazard

**Aspiration hazard** Aspiration hazard if swallowed.

Octanal

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> 4617 mg/kg, Oral, Rat REACH dossier information. Based on available data

the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> 5207 mg/kg, Dermal, Rabbit REACH dossier information. Based on available

data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) LC<sub>50</sub> >830 mg/m³, Inhalation, Rat REACH dossier information. Based on available

data the classification criteria are not met.

Skin corrosion/irritation

# Lyreco Office Wet Wipes

Animal data Dose: 0.5 mL, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2).

Oedema score: Very slight oedema - barely perceptible (1). REACH dossier

information. Irritating.

Serious eye damage/irritation

Serious eye damage/irritation

Dose: 0.1 mL, 14 days, Rabbit Causes serious eye irritation.

Skin sensitization

Skin sensitization Freund's complete adjuvant test - Guinea pig: Not sensitizing. REACH dossier

information. Based on available data the classification criteria are not met.

Germ cell mutagenicity

**Genotoxicity - in vitro**Gene mutation: Negative. REACH dossier information. Based on available data the

classification criteria are not met.

Genotoxicity - in vivo DNA damage and/or repair: Negative. REACH dossier information. Based on

available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity -

fertility

One-generation study - NOAEL 300 mg/kg, Oral, Rat P REACH dossier information.

Based on available data the classification criteria are not met.

Reproductive toxicity - development

Developmental toxicity: - NOAEL: 1500 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Geraniol

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> 3600 mg/kg/day, Oral, Rat REACH dossier information. Based on available

data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> >5000 mg/kg, Dermal, Rabbit REACH dossier information. Based on available

data the classification criteria are not met.

Skin corrosion/irritation

Animal data Dose: 0.5 mL, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2).

Oedema score: Very slight oedema - barely perceptible (1). Primary dermal

irritation index: 3.3 REACH dossier information. Irritating.

Serious eye damage/irritation

Serious eye damage/irritation

Causes serious eye damage.

Skin sensitization

Skin sensitization Local Lymph Node Assay (LLNA) - Mouse: Sensitizing. REACH dossier

information.

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative. REACH dossier information. Based on available data the

classification criteria are not met.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information. Based on available

data the classification criteria are not met.

Carcinogenicity

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Carcinogenicity NOAEL 2000 mg/kg/day, Oral, Rat REACH dossier information. Based on available

data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity -

fertility

Screening - NOAEL 300 mg/kg/day, Dermal, Rat P REACH dossier information.

Based on available data the classification criteria are not met.

Reproductive toxicity development

Developmental toxicity: - NOAEL: 300 mg/kg/day, Dermal, Rat REACH dossier information. Based on available data the classification criteria are not met.

p-Mentha-1,3-diene

**Toxicological effects** No data recorded.

Acute toxicity - oral

Notes (oral LD₅o) Harmful if swallowed.

ATE oral (mg/kg) 500.0

Aspiration hazard

Aspiration hazard Aspiration hazard if swallowed.

Caryophyllene

**Toxicological effects** No data recorded.

Aspiration hazard

Aspiration hazard Aspiration hazard if swallowed.

12. Ecological Information

**Ecotoxicity** Not regarded as dangerous for the environment. However, large or frequent spills may have

hazardous effects on the environment.

**Toxicity** 

Based on available data the classification criteria are not met. **Toxicity** 

Ecological information on ingredients.

2-Butoxyethanol

**Toxicity** Aquatic toxicity is unlikely to occur. Based on available data the classification

criteria are not met.

LC<sub>50</sub>, 96 hours: 1474 mg/l, Onchorhynchus mykiss (Rainbow trout) Acute toxicity - fish

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 1550 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: 911 mg/l, Pseudokirchneriella subcapitata

Chronic toxicity - fish early NOEL, 21 days: >100 mg/l, Brachydanio rerio (Zebra Fish)

life stage

Chronic toxicity - aquatic

invertebrates

NOEC, 21 days: 100 mg/l, Daphnia magna

# Lyreco Office Wet Wipes

# 1-Methoxy-2-propanol

Acute toxicity - fish LC₅₀, 96 hours: 20800 mg/l, Pimephales promelas (Fat-head Minnow)

REACH dossier information.

Acute toxicity - aquatic

invertebrates

LC<sub>50</sub>, 48 hours: 21100 mg/l, Daphnia magna

REACH dossier information.

Acute toxicity - aquatic

plants

EC₅o, 7 days: >1000 mg/l, Selenastrum capricornutum

REACH dossier information.

Sodium N-lauroylsarcosinate

**Toxicity** Aquatic toxicity is unlikely to occur. Based on available data the classification

criteria are not met.

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 107 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 29.7 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: 39 mg/l, Desmodesmus subspicatus

Benzyl-C12-14-alkyldimethylammonium chlorides

**Toxicity** Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Very toxic to aquatic life with long

lasting effects.

Acute aquatic toxicity

**LE(C)**<sub>50</sub>  $0.01 < L(E)C50 \le 0.1$ 

M factor (Acute) 10

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 0.85 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

LC<sub>50</sub>, 48 hours: 0.32 mg/l, Acartia tonsa

Acute toxicity - aquatic

plants

 $EC_{50}$ , 96 hours: 0.03 mg/l, Selenastrum capricornutum

Chronic aquatic toxicity

M factor (Chronic) 1

Short term toxicity - N

embryo and sac fry stages

NOEC, 28 days: 0.032 mg/l, Pimephales promelas (Fat-head Minnow)

Chronic toxicity - aquatic

invertebrates

NOEC, 21 days: 0.0045 mg/l, Daphnia magna

Fatty alcohol ethoxylate

**Toxicity** Based on available data the classification criteria are not met.

Acute toxicity - fish LC₅₀, 96 hours: 7.5 mg/l, Lepomis macrochirus (Bluegill)

d-Limonene

# Lyreco Office Wet Wipes

Toxicity Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Very toxic to aquatic life with long

lasting effects.

Acute aquatic toxicity

**LE(C)**<sub>50</sub>  $0.1 < L(E)C50 \le 1$ 

M factor (Acute)

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 0.72 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 0.36 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: 150 mg/l, Desmodesmus subspicatus

Acute toxicity -

microorganisms

EC<sub>50</sub>, 3 hours: 209 mg/l, Activated sludge

Chronic aquatic toxicity

M factor (Chronic) 1

Pin-2(3)-ene

**Toxicity** Aquatic toxicity is unlikely to occur.

Linalool

**Toxicity** Aguatic toxicity is unlikely to occur. Based on available data the classification

criteria are not met.

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 27.8 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 59 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅o, 96 hours: 88.3 mg/l, Scenedesmus subspicatus

p-Menth-1-en-8-ol

**Toxicity** Aquatic toxicity is unlikely to occur. Based on available data the classification

criteria are not met.

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 70 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic

invertebrates

EC₅o, 48 hours: 73 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC $_{50}$ , 72 hours: 17 mg/l, Pseudokirchneriella subcapitata

Linalyl acetate

**Toxicity** Based on available data the classification criteria are not met.

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 11 mg/l, Cyprinus carpio (Common carp)

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Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 15 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: 62 mg/l, Scenedesmus subspicatus

Citral

**Toxicity** Based on available data the classification criteria are not met.

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 6.78 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 6.8 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: 103.8 mg/l, Scenedesmus subspicatus

**Ethanol** 

**Toxicity** Based on available data the classification criteria are not met.

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 14200 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

invertebrates

LC<sub>50</sub>, 48 hours: 5012 mg/l, Ceriodaphnia dubia

Acute toxicity - aquatic

plants

EC₅o, 72 hours: 11.5 mg/l, Chlorella vulgaris

Chronic toxicity - aquatic

invertebrates

NOEC, 9 days: 9.6 mg/l, Daphnia magna

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

Acute aquatic toxicity

**LE(C)**<sub>50</sub>  $0.01 < L(E)C50 \le 0.1$ 

M factor (Acute) 10

Acute toxicity - fish LC₅₀, 96 hours: 0.19 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 0.16 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: 0.027 mg/l, Selenastrum capricornutum

Chronic aquatic toxicity

M factor (Chronic) 1

2,6-Di-tert-butyl-p-cresol

Toxicity Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Very toxic to aquatic life with long

lasting effects.

Acute aquatic toxicity

# Lyreco Office Wet Wipes

**LE(C)**<sub>50</sub>  $0.1 < L(E)C50 \le 1$ 

M factor (Acute)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 0.48 mg/l, Daphnia magna

Chronic aquatic toxicity

M factor (Chronic) 1

Pin-2(10)-ene

Toxicity Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Very toxic to aquatic life with long

lasting effects.

Acute aquatic toxicity

**LE(C)**<sub>50</sub>  $0.1 < L(E)C50 \le 1$ 

M factor (Acute) 1

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 0.557 mg/l, Cyprinus carpio (Common carp)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 1.25 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 48 hours: 0.826 mg/l, Pseudokirchneriella subcapitata

Chronic aquatic toxicity

M factor (Chronic) 1

Octanal

**Toxicity** Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

Acute toxicity - fish LC₅₀, 14 days: 7.9 mg/l, Poecilia reticulata (Guppy)

Acute toxicity - aquatic

invertebrates

LC<sub>80</sub>, 48 hours: 3.48 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅o, 72 hours: 1.79 mg/l, Pseudokirchneriella subcapitata

Geraniol

**Toxicity** Aquatic toxicity is unlikely to occur. Based on available data the classification

criteria are not met.

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 22 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 10.8 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅o, 72 hours: 13.1 mg/l, Desmodesmus subspicatus

p-Mentha-1,3-diene

# Lyreco Office Wet Wipes

**Toxicity** Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 7.7 mg/l, Pimephales promelas (Fat-head Minnow), Estimated

value.

Acute toxicity - aquatic

invertebrates

EC₅o, 48 hours: 25.5 mg/l, Daphnia magna, Estimated value.

### Caryophyllene

**Toxicity** Based on available data the classification criteria are not met.

Persistence and degradability

Persistence and degradability The degradability of the product is not known.

Ecological information on ingredients.

2-Butoxyethanol

Persistence and

degradability

The substance is readily biodegradable.

**Biodegradation** Water - Degradation 90.4%: 28 days

1-Methoxy-2-propanol

Persistence and

degradability

The substance is readily biodegradable.

Phototransformation Water - DT₅₀ : 3.1 hours

REACH dossier information.

Biodegradation Water - Degradation 96%: 28 days

REACH dossier information.

1-(2-Butoxy-1-methylethoxy)propan-2-ol

Persistence and degradability

The product is readily biodegradable.

Sodium N-lauroylsarcosinate

Persistence and degradability

The substance is readily biodegradable.

**Biodegradation** Water - Degradation 82%: 28 days

Benzyl-C12-14-alkyldimethylammonium chlorides

Persistence and degradability

The substance is readily biodegradable.

Phototransformation Water - DT₅₀ : 0.26 days

Stability (hydrolysis) pH4 - Recovery 94.6%: 30 days @ 25°C

pH7 - Recovery 94.4%: 30 days @ 25°C pH9 - Recovery 99.5%: 30 days @ 25°C

**Biodegradation** Water - Degradation 95.5%: 28 days

# Lyreco Office Wet Wipes

# Fatty alcohol ethoxylate

Persistence and degradability

The substance is readily biodegradable.

d-Limonene

Persistence and degradability

The substance is readily biodegradable.

Phototransformation V

Water - Half-life: 0.365 hours

Estimated value.

Biodegradation Water - Degradation 80%: 28 days

Pin-2(3)-ene

Persistence and degradability

The product is biodegradable.

**Phototransformation** Water - DT<sub>50</sub>: 0.44-1.41 hours

Linalool

Persistence and degradability

The substance is readily biodegradable.

Biodegradation Water - Degradation 64.2%: 28 days

p-Menth-1-en-8-ol

Persistence and degradability

The substance is readily biodegradable.

**Biodegradation** Water - Degradation 80%: 28 days

Linalyl acetate

Persistence and degradability

The substance is readily biodegradable.

Phototransformation Water - DT₅₀ : 3.31 hours

Stability (hydrolysis) pH4 - Recovery 2%: 2.4 hours @ 25°C

pH7 - Recovery 3%: 2.4 hours @  $25^{\circ}$ C pH9 - Recovery 4%: 2.4 hours @  $25^{\circ}$ C

**Biodegradation** Water - Degradation 70-80%: 28 days

Citral

Persistence and degradability

The substance is readily biodegradable.

Phototransformation Water - DT₅₀ : 37.35 minutes

Biodegradation Water - Degradation 85-95%: 28 days

**Ethanol** 

# Lyreco Office Wet Wipes

Persistence and

degradability

The substance is readily biodegradable.

Biodegradation

Water - Degradation 74%: 10 days

Chemical oxygen demand 1.99 g O<sub>2</sub>/g substance

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one

[EC no. 220-239-6] (3:1)

**Biodegradation** 

Water - DT<sub>50</sub>: 0.2 - 1.3 days

2,6-Di-tert-butyl-p-cresol

Persistence and

degradability

Not readily biodegradable.

Water - DT₅o: 7 hours **Phototransformation** 

Estimated value.

Biodegradation Water - Degradation 4.5%: 28 days

Pin-2(10)-ene

Persistence and

degradability

The substance is readily biodegradable.

Biodegradation Water - Degradation 76%: 28 days

Octanal

Persistence and

degradability

Moderately biodegradable.

Biodegradation Water - Degradation 46%: 28 days

Geraniol

Persistence and

degradability

The substance is readily biodegradable.

**Biodegradation** Water - Degradation 90-100%: 3 days

p-Mentha-1,3-diene

Persistence and

degradability

The product is expected to be biodegradable.

Biodegradation - Half-life: 15 days

Estimated value.

Caryophyllene

Persistence and

degradability

Not expected to be readily biodegradable.

- Half-life: 37.5 days Biodegradation

Estimated value.

# Lyreco Office Wet Wipes

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient Not available.

Ecological information on ingredients.

2-Butoxyethanol

Bio-Accumulative Potential Bioaccumulation is unlikely.

Partition coefficient log Kow: 0.81

1-Methoxy-2-propanol

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient log Pow: <1 REACH dossier information.

Sodium N-lauroylsarcosinate

Bio-Accumulative Potential Bioaccumulation is unlikely.

Partition coefficient log Pow: 0.37

Benzyl-C12-14-alkyldimethylammonium chlorides

Bio-Accumulative Potential BCF: 67.62, Estimated value. Bioaccumulation is unlikely.

Partition coefficient log Pow: 2.75

Fatty alcohol ethoxylate

Bio-Accumulative Potential Bioaccumulation is unlikely.

d-Limonene

Bio-Accumulative Potential BCF: 1022, Estimated value.

Partition coefficient log Pow: 4.38

Pin-2(3)-ene

Bio-Accumulative Potential BCF: 1845, Estimated value. Bioaccumulation is unlikely.

Partition coefficient log Pow: 4.487

**Linalool** 

Bio-Accumulative Potential Bioaccumulation is unlikely.

Partition coefficient log Pow: 2.84

p-Menth-1-en-8-ol

Bio-Accumulative Potential Bioaccumulation is unlikely.

Partition coefficient log Pow: 2.6

# Lyreco Office Wet Wipes

# Linalyl acetate

Bio-Accumulative Potential BCF: 173.9, Estimated value. Bioaccumulation is unlikely.

Partition coefficient log Pow: 3.9

Citral

Bio-Accumulative Potential BCF: 89.72, Estimated value. The product is not bioaccumulating.

Partition coefficient log Pow: 2.76

**Ethanol** 

Bio-Accumulative Potential Bioaccumulation is unlikely.

Partition coefficient log Pow: -0.35

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

Bio-Accumulative Potential Bioaccumulation is unlikely.

Partition coefficient log Pow: 0.401

2,6-Di-tert-butyl-p-cresol

Bio-Accumulative Potential BCF: 330, Cyprinus carpio (Common carp)

Partition coefficient log Pow: 5.1

Pin-2(10)-ene

Bio-Accumulative Potential BCF: 383.1, Estimated value. Bioaccumulation is unlikely.

Partition coefficient log Pow: 4.425

Octanal

Bio-Accumulative Potential BCF: 95, Estimated value. Bioaccumulation is unlikely.

Partition coefficient log Pow: 3.5

Geraniol

Bio-Accumulative Potential Bioaccumulation is unlikely.

Partition coefficient log Pow: 2.6

p-Mentha-1,3-diene

Bio-Accumulative Potential log BCF: 4, Estimated value. Bioaccumulation is unlikely.

Partition coefficient log Kow: 4.25

Caryophyllene

Bio-Accumulative Potential log BCF: 4.8, Estimated value. Potentially bioaccumulating.

# Lyreco Office Wet Wipes

Partition coefficient log Kow: 6.3 Estimated value.

Mobility in soil

Mobility No data available.

Ecological information on ingredients.

2-Butoxyethanol

**Mobility** The product is miscible with water and may spread in water systems.

Surface tension 29.53 mN/m @ 20°C

1-Methoxy-2-propanol

Mobility Mobile.

Surface tension 70.7 mN/m @ 20°C

Sodium N-lauroylsarcosinate

**Mobility** The product is partly soluble in water and may spread in the aquatic environment.

Surface tension 40.5 mN/m @ 20°C

Benzyl-C12-14-alkyldimethylammonium chlorides

**Mobility** The product is soluble in water.

Henry's law constant 0.00000104 Pa m³/mol @ 25°C Estimated value.

Surface tension 28.27 mN/m @ 19.7°C

Fatty alcohol ethoxylate

**Mobility** The product is soluble in water.

d-Limonene

**Mobility** The product is partly soluble in water and may spread in the aquatic environment.

Adsorption/desorption

coefficient

Water - Koc: 1984 @ 25°C

Pin-2(3)-ene

**Mobility** The product is insoluble in water.

Adsorption/desorption

coefficient

Water - Koc: 2184 @ 25°C Estimated value.

Linalool

**Mobility** The product is soluble in water.

p-Menth-1-en-8-ol

**Mobility** The product is soluble in water.

# Lyreco Office Wet Wipes

### Linalyl acetate

**Mobility** The product is partly soluble in water and may spread in the aquatic environment.

Adsorption/desorption

coefficient

Water - Log Koc: 2.71 @ 25°C Estimated value.

Henry's law constant 176.31 Pa m³/mol @ 25°C Estimated value.

Citral

**Mobility** The product is partly soluble in water and may spread in the aquatic environment.

Adsorption/desorption

coefficient

Water - Log Koc: 2.169 @ 25°C Estimated value.

Henry's law constant 0.000376 atm m³/mol @ 25°C

**Ethanol** 

**Mobility** The product is soluble in water.

Surface tension 24.5 mN/m @ 20°C/68°F

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

Mobility No data available.

2,6-Di-tert-butyl-p-cresol

**Mobility** The product is partly soluble in water and may spread in the aquatic environment.

Henry's law constant 0.342 Pa m³/mol @ 25°C

Pin-2(10)-ene

**Mobility** The product is partly soluble in water and may spread in the aquatic environment.

Adsorption/desorption

coefficient

Water - Koc: 2080 @ 25°C Estimated value.

Octanal

**Mobility** The product is partly soluble in water and may spread in the aquatic environment.

Adsorption/desorption

coefficient

Estimated value. Water - Log Koc: 2.63 @ 25°C

Surface tension 27.9 mN/m @ 20°C

Geraniol

**Mobility** The product is soluble in water.

Adsorption/desorption

coefficient

Water - Log Koc: 1.85 @ 25°C Estimated value.

p-Mentha-1,3-diene

# Lyreco Office Wet Wipes

Mobility No data available.

Caryophyllene

**Mobility** The product has poor water-solubility.

Results of PBT and vPvB assessment

Ecological information on ingredients.

2-Butoxyethanol

Results of PBT and vPvB This substance is not classified as PBT or vPvB according to current EU criteria.

assessment

1-Methoxy-2-propanol

Results of PBT and vPvB This substance is not classified as PBT or vPvB according to current EU criteria.

assessment

Sodium N-lauroylsarcosinate

Results of PBT and vPvB This substance is not classified as PBT or vPvB according to current EU criteria.

assessment

Benzyl-C12-14-alkyldimethylammonium chlorides

Results of PBT and vPvB This substance is not classified as PBT or vPvB according to current EU criteria.

assessment

Fatty alcohol ethoxylate

Results of PBT and vPvB No dat

assessment

No data available.

<u>d-Limonene</u>

Results of PBT and vPvB

assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

Estimated value.

Pin-2(3)-ene

Results of PBT and vPvB

assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

Linalool

Results of PBT and vPvB

assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

p-Menth-1-en-8-ol

Results of PBT and vPvB

assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

Linalyl acetate

# Lyreco Office Wet Wipes

Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

### Citral

Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

### **Ethanol**

Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

### 2,6-Di-tert-butyl-p-cresol

assessment

Results of PBT and vPvB This substance is not classified as PBT or vPvB according to current EU criteria.

# Pin-2(10)-ene

Results of PBT and vPvB This substance is not classified as PBT or vPvB according to current EU criteria.

assessment

### Octanal

Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

Geraniol

Results of PBT and vPvB

This substance is not classified as PBT or vPvB according to current EU criteria.

assessment

p-Mentha-1,3-diene

Results of PBT and vPvB

This substance is not classified as PBT or vPvB according to current EU criteria.

assessment

Caryophyllene

Results of PBT and vPvB This substance is not classified as PBT or vPvB according to current EU criteria.

assessment

Other adverse effects

Other adverse effects None known.

13. Disposal considerations

Waste treatment methods

# Lyreco Office Wet Wipes

**General information** The generation of waste should be minimized or avoided wherever possible. Reuse or recycle

products wherever possible. This material and its container must be disposed of in a safe

way.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority.

# 14. Transport information

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, DoT).

# **UN Number**

Not applicable.

# UN proper shipping name

Not applicable.

### Transport hazard class(es)

No transport warning sign required.

### Transport labels

### **DOT transport labels**

No transport warning sign required.

### Packing group

Not applicable.

### **Environmental hazards**

# **Environmentally Hazardous Substance**

No

# Special precautions for user

Not applicable.

**DOT TIH Zone** Not applicable.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

# 15. Regulatory information

# International Regulations

# **US Federal Regulations**

# SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed or exempt.

# CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None of the ingredients are listed or exempt.

# SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed or exempt.

# Lyreco Office Wet Wipes

### SARA 313 Emission Reporting

The following ingredients are listed or exempt:

### **CAA Accidental Release Prevention**

None of the ingredients are listed or exempt.

### FDA - Essential Chemical

None of the ingredients are listed or exempt.

### **FDA - Precursor Chemical**

None of the ingredients are listed or exempt.

# SARA (311/312) Hazard Categories

None of the ingredients are listed or exempt.

### **OSHA Highly Hazardous Chemicals**

None of the ingredients are listed or exempt.

### **US State Regulations**

# California Proposition 65 Carcinogens and Reproductive Toxins

The following ingredients are listed or exempt:

# California Air Toxics "Hot Spots" (A-I)

The following ingredients are listed or exempt:

# California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed or exempt.

### California Directors List of Hazardous Substances

The following ingredients are listed or exempt:

# Massachusetts "Right To Know" List

The following ingredients are listed or exempt:

### Rhode Island "Right To Know" List

The following ingredients are listed or exempt:

### Minnesota "Right To Know" List

The following ingredients are listed or exempt:

# New Jersey "Right To Know" List

The following ingredients are listed or exempt:

# Pennsylvania "Right To Know" List

The following ingredients are listed or exempt:

# Inventories

### **US-TSCA**

The following ingredients are listed or exempt:

# US - TSCA 12(b) Export Notification

The following ingredients are listed or exempt:

### 16. Other information

# Training advice

Read and follow manufacturer's recommendations.

# Lyreco Office Wet Wipes

**Issued by** Bethan Massey

Revision date 11/24/2016

Revision 0

**SDS No.** 627

Hazard statements in full H225 Highly flammable liquid and vapor.

H226 Flammable liquid and vapor.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

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.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life. H402 Harmful to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.