

# Safety Data Sheet

## FRESCA FOGLIA ANTITABACCO - DEODORANTE IN CARTONFELTRO



Safety Data Sheet dated 4/7/2019, version 5

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Mixture identification:

Trade name: FRESCA FOGLIA ANTITABACCO - DEODORANTE IN  
CARTONFELTRO

Trade code: 1634

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

Recommended use:

Car air freshener

#### 1.3. Details of the supplier of the safety data sheet

Supplier:

Arexons S.p.A.  
via Antica di Cassano, 23, 20063  
Cernusco sul Naviglio (MI), Italy

Arexons S.p.A.  
Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306

Competent person responsible for the safety data sheet:

arexons@arexons.it

#### 1.4. Emergency telephone number

Arexons S.p.A.

Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306

Centro Antiveleni di Pavia IRCCS- Fondazione Maugeri tel. +39 (0)382 24444 (h24; it, en)

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

In Ireland: Beaumont Hospital - National Poisons Information Centre 01 809 2166 (7days, 8:00 - 22:00)

In South Africa: Poison Information Helpline 0861 555 777

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

- ⚠ Warning, Skin Irrit. 2, Causes skin irritation.
- ⚠ Warning, Eye Irrit. 2, Causes serious eye irritation.
- ⚠ Warning, Skin Sens. 1B, May cause an allergic skin reaction.
- ⚠ Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

#### 2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.



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P102 Keep out of reach of children.

P103 Read label before use.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P391 Collect spillage.

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

Special Provisions:

None

Contains

PARA-TERT-BUTYLCYCLOHEXYL ACETATE

Linalool: May produce an allergic reaction.

citral: May produce an allergic reaction.

6,7-dihydro-1,1,2,3,3-pentamethyl-4(5H)-indanone: May produce an allergic reaction.

2-Methylundecanal: May produce an allergic reaction.

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one: May produce an allergic reaction.

1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one: May produce an allergic reaction.

1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one: May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

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## SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

>= 10% - < 12.5% 2,6-dimethyloct-7-en-2-ol

REACH No.: 01-2119457274-37, CAS: 18479-58-8, EC: 242-362-4

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.3/2 Eye Irrit. 2 H319

>= 7% - < 10% PARA-TERT-BUTYLCYCLOHEXYL ACETATE

CAS: 32210-23-4, EC: 250-954-9

⚠ 3.4.2/1B Skin Sens. 1B H317

4.1/C3 Aquatic Chronic 3 H412

>= 3% - < 5% Linalool

REACH No.: 01-2119474016-42, CAS: 78-70-6, EC: 201-134-4

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.2/1B Skin Sens. 1B H317

⚠ 3.3/2 Eye Irrit. 2 H319

>= 2% - < 3% citral

Index number: 605-019-00-3, CAS: 5392-40-5, EC: 226-394-6

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.2/1B Skin Sens. 1B H317

⚠ 3.3/2 Eye Irrit. 2 H319

>= 2% - < 3% l-menthol



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### FRESCA FOGLIA ANTITABACCO - DEODORANTE IN CARTONFELTRO

CAS: 2216-51-5, EC: 218-690-9

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.3/2 Eye Irrit. 2 H319

>= 2% - < 3% CEDROL

CAS: 77-53-2, EC: 201-035-6

⚠ 4.1/C2 Aquatic Chronic 2 H411

>= 0.5% - < 1% 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one

REACH No.: 01-2119489989-04, CAS: 54464-57-2, EC: 259-174-3

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.2/1B Skin Sens. 1B H317

⚠ 4.1/C1 Aquatic Chronic 1 H410

>= 0.5% - < 1% 2-Methylundecanal

CAS: 110-41-8, EC: 203-765-0

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.2/1B Skin Sens. 1B H317

⚠ 4.1/A1 Aquatic Acute 1 H400

⚠ 4.1/C1 Aquatic Chronic 1 H410

>= 0.5% - < 1% 6,7-dihydro-1,1,2,3,3-pentamethyl-4(5H)-indanone

CAS: 33704-61-9, EC: 251-649-3

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 4.1/C2 Aquatic Chronic 2 H411

⚠ 3.4.2/1 Skin Sens. 1 H317

⚠ 3.3/2 Eye Irrit. 2 H319

>= 0.25% - < 0.5% Alpha-cedrene

CAS: 469-61-4

⚠ 3.10/1 Asp. Tox. 1 H304

⚠ 4.1/A1 Aquatic Acute 1 H400

⚠ 4.1/C1 Aquatic Chronic 1 H410

>= 0.25% - < 0.5% 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one

CAS: 68155-66-8

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.2/1 Skin Sens. 1 H317

⚠ 4.1/C1 Aquatic Chronic 1 H410

>= 0.25% - < 0.5% 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one

CAS: 68155-67-9, EC: 268-979-9

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.2/1B Skin Sens. 1B H317

⚠ 4.1/C1 Aquatic Chronic 1 H410

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#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.



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After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

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#### SECTION 5: Firefighting measures

5.1. Extinguishing media

Appropriate Extinguishing Media:

Not Recommended Extinguishing Media:

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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#### SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

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#### SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

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Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

#### 7.3. Specific end use(s)

None in particular

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

citral - CAS: 5392-40-5

ACGIH - TWA(8h): 5 ppm - Notes: (IFV), Skin, DSEN, A4 - Body weight eff, URT irr, eye dam

### DNEL Exposure Limit Values

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one - CAS: 54464-57-2

Worker Professional: 0.1011 03 - Exposure: Human Dermal - Frequency: Short Term, local effects

Worker Professional: 1.73 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Worker Professional: 1.76 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

### PNEC Exposure Limit Values

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one - CAS: 54464-57-2

Target: Fresh Water - Value: 0.0028 mg/l

Target: Marine water - Value: 0.00028 mg/l

Target: Freshwater sediments - Value: 3.73 mg/kg

Target: Marine water sediments - Value: 0.75 mg/kg

Target: Soil (agricultural) - Value: 0.705 mg/kg

### 8.2. Exposure controls

#### Eye protection:

Use close fitting safety goggles, don't use eye lens.

#### Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

#### Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

#### Respiratory protection:

Not needed for normal use.

#### Thermal Hazards:

None

#### Environmental exposure controls:

None

#### Appropriate engineering controls:

None

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	Foglia di cellulosa con profumo	--	--

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Odour:	Characteristic	--	--
Odour threshold:	N.A.	--	--
pH:	N.A.	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	N.A.	--	--
Flash point:	N.A.	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	N.A.	--	--
Vapour density:	N.A.	--	--
Relative density:	N.A.	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	N.A.	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

9.2. Other information

<b>Properties</b>	<b>Value</b>	<b>Method:</b>	<b>Notes:</b>
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

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NA=not applicable



#### SECTION 10: Stability and reactivity

- 10.1. Reactivity  
Stable under normal conditions
- 10.2. Chemical stability  
Stable under normal conditions
- 10.3. Possibility of hazardous reactions
- 10.4. Conditions to avoid  
Stable under normal conditions.
- 10.5. Incompatible materials  
None in particular.
- 10.6. Hazardous decomposition products  
None.

#### SECTION 11: Toxicological information

##### 11.1. Information on toxicological effects

Toxicological information of the product:

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##### a) acute toxicity

Based on available data, the classification criteria are not met

##### b) skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315

##### c) serious eye damage/irritation

The product is classified: Eye Irrit. 2 H319

##### d) respiratory or skin sensitisation

The product is classified: Skin Sens. 1B H317

##### e) germ cell mutagenicity

Based on available data, the classification criteria are not met

##### f) carcinogenicity

Based on available data, the classification criteria are not met

##### g) reproductive toxicity

Based on available data, the classification criteria are not met

##### h) STOT-single exposure

Based on available data, the classification criteria are not met

##### i) STOT-repeated exposure

Based on available data, the classification criteria are not met

##### j) aspiration hazard

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

2,6-dimethyloct-7-en-2-ol - CAS: 18479-58-8

##### a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 3600 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

PARA-TERT-BUTYLCYCLOHEXYL ACETATE - CAS: 32210-23-4

##### a) acute toxicity:

Test: LD50 - Route: Skin > 5000 mg/kg

Test: LD50 - Route: Oral 3370 mg/kg

Test: LD50 - Route: Inhalation > 100 mg/l

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one - CAS: 54464-57-2

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a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

2-Methylundecanal - CAS: 110-41-8

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 10000 mg/kg

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## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

2,6-dimethyloct-7-en-2-ol - CAS: 18479-58-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 4.81 mg/l - Duration h: 96

Endpoint: LC50 - Species: Daphnia = 5.70 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 3.88 mg/l - Duration h: 72

PARA-TERT-BUTYLCYCLOHEXYL ACETATE - CAS: 32210-23-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Fish 14.9 mg/l - Notes: DIN38412

Endpoint: LC50 - Species: Fish 14.9 mg/l - Duration h: 48

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one - CAS: 54464-57-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 1.30 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 1.38 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae 2.60 mg/l - Duration h: 72

2-Methylundecanal - CAS: 110-41-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.35 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 0.21 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 0.18 mg/l - Duration h: 72

Endpoint: NOEC - Species: Algae = 0.089 mg/l - Duration h: 72

Alpha-cedrene - CAS: 469-61-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia 0.05 mg/kg

1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one - CAS: 68155-67-9

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 1.30 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 1.38 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae 2.6 mg/l - Duration h: 72

### 12.2. Persistence and degradability

None

N.A.

### 12.3. Bioaccumulative potential

N.A.

### 12.4. Mobility in soil

N.A.

### 12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

### 12.6. Other adverse effects

None

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.



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### FRESCA FOGLIA ANTITABACCO - DEODORANTE IN CARTONFELTRO



#### SECTION 14: Transport information



- 14.1. UN number  
ADR-UN Number: 3077  
IATA-UN Number: 3077  
IMDG-UN Number: 3077
- 14.2. UN proper shipping name  
ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(CEDROL, 2-Methylundecanal)  
IATA-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(CEDROL, 2-Methylundecanal)  
IMDG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(CEDROL, 2-Methylundecanal)
- 14.3. Transport hazard class(es)  
ADR-Class: 9  
ADR - Hazard identification number: 90  
IATA-Class: 9  
IATA-Label: 9  
IMDG-Class: 9
- 14.4. Packing group  
ADR-Packing Group: III  
IATA-Packing group: III  
IMDG-Packing group: III
- 14.5. Environmental hazards  
ADR-Environmental Pollutant: No  
IMDG-Marine pollutant: No
- 14.6. Special precautions for user  
ADR-Subsidiary hazards: -  
ADR-S.P.: 274 335 375 601  
ADR-Transport category (Tunnel restriction code): 3 (-)  
IATA-Passenger Aircraft: 956  
IATA-Subsidiary hazards: -  
IATA-Cargo Aircraft: 956  
IATA-S.P.: A97 A158 A179 A197  
IATA-ERG: 9L  
IMDG-EmS: F-A,  
S-F  
IMDG-Subsidiary hazards: -  
IMDG-Stowage and handling: Category A SW23  
IMDG-Segregation: -
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code  
No  
Limited Quantity: 5 kg  
Exempted Quantity: E1

#### SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013



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Regulation (EU) 2015/830  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
Regulation (EU) n. 2016/918 (ATP 8 CLP)  
Regulation (EU) n. 2016/1179 (ATP 9 CLP)  
Regulation (EU) n. 2017/776 (ATP 10 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

No restriction.

Restrictions related to the substances contained:

No restriction.

Volatile Organic compounds - VOCs = 0.01 %

Volatile Organic compounds - VOCs = 0.10 g/Kg

Volatile Organic compounds - VOCs = 0.09 g/l

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: E2

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

Substances for which a Chemical Safety Assessment has been carried out:

None

## SECTION 16: Other information

Text of phrases referred to under heading 3:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H410 Very toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

H304 May be fatal if swallowed and enters airways.

Hazard class and hazard category	Code	Description
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B

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Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Paragraphs modified from the previous revision:

SECTION 2: Hazards identification  
SECTION 3: Composition/information on ingredients  
SECTION 4: First aid measures  
SECTION 7: Handling and storage  
SECTION 8: Exposure controls/personal protection  
SECTION 14: Transport information  
SECTION 15: Regulatory information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

<b>Classification according to Regulation (EC) Nr. 1272/2008</b>	<b>Classification procedure</b>
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1B, H317	Calculation method
Aquatic Chronic 2, H411	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
Commission of the European Communities  
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van  
Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
ATE: Acute Toxicity Estimate  
ATEmix: Acute toxicity Estimate (Mixtures)  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
CLP: Classification, Labeling, Packaging.  
DNEL: Derived No Effect Level.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
GHS: Globally Harmonized System of Classification and Labeling of



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	Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
NA:	Not applicable
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.