



MYRTLE OIL MOROCCO

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue:10/8/2015 Revision date: Supersedes:10/8/2015

Version: 1.0

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

1.1. Product identifier

Product form : Substance
Substance name : MYRTLE OIL MOROCCO
EC no : 282-012-8
CAS No : 84082-67-7
Product code : MYRTHE01
Synonyms : CAS N° : 8008-46-6
Product group : Essential oil

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use
Industrial/Professional use spec : For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

EXAFLOR
5 rue des Pyrénées
94653 Rungis Cedex - France
T +33 (0)1 41 73 23 10 - F +33 (0)1 41 73 23 19
exaflor@orange.fr - www.exaflor.fr

1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency number | Comment |
|---------|----------------------|---------|-------------------|---------|
| | ORFILA (FRANCE) | | +33 1 45 42 59 59 | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3 H226
Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Sensitisation — Skin, Category 1 H317
Germ cell mutagenicity, Category 2 H341
Carcinogenicity, Category 2 H351
Aspiration hazard, Category 1 H304
Hazardous to the aquatic environment — Acute Hazard, Category 1 H400
Hazardous to the aquatic environment — Chronic Hazard, Category 1 H410

Full text of H statements : see section 16

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazard statements (CLP) :

H226 - Flammable liquid and vapour
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation

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| | |
|--------------------------------|--|
| Precautionary statements (CLP) | : H341 - Suspected of causing genetic defects H351 - Suspected of causing cancer H410 - Very toxic to aquatic life with long lasting effects P202 - Do not handle until all safety precautions have been read and understood P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof ventilating equipment P261 - Avoid breathing mist, fume, dust, vapours P264 - Wash hands thoroughly after handling P273 - Avoid release to the environment P280 - Wear protective gloves, protective clothing, eye protection P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor P302+P352 - IF ON SKIN: Wash with plenty of water P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P308+P313 - IF exposed or concerned: Get medical advice/attention P321 - Specific treatment (see Read label before use on this label) P331 - Do NOT induce vomiting P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P370+P378 - In case of fire: Use extinguishing powder, carbon dioxide (CO2) to extinguish P403+P235 - Store in a well-ventilated place. Keep cool P501 - Dispose of contents/container to contents/container to agreed companies according to national regulations |
| Child-resistant fastening | : No |
| Tactile warning | : No |

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

| | |
|--------|----------------------|
| Name | : MYRTLE OIL MOROCCO |
| CAS No | : 84082-67-7 |
| EC no | : 282-012-8 |

| Name | Product identifier | % |
|------------------|---|---------|
| EUCALYPTOL | (CAS No) 470-82-6 (EC no) 207-431-5 | 30 - 50 |
| ALPHA-PINENES | (CAS No) 80-56-8 (EC no) 201-291-9 | 19 - 28 |
| MYRTENYL ACETATE | (CAS No) 1079-01-2 (EC no) 214-088-5 | 15 - 25 |
| D-LIMONENE | (CAS No) 5989-27-5 (EC no) 227-813-5 (EC index no) 601-029-00-7 | 10 - 15 |
| GERANYL ACETATE | (CAS No) 105-87-3 (EC no) 203-341-5 | 1 - 5 |
| LINALOOL | (CAS No) 78-70-6 (EC no) 201-134-4 | 1 - 5 |
| ALPHA-TERPINEOL | (CAS No) 98-55-5 (EC no) 202-680-6 | 1 - 5 |
| METHYL EUGENOL | (CAS No) 93-15-2 (EC no) 202-223-0 | 0 - 1 |
| GERANIOL | (CAS No) 106-24-1 (EC no) 203-377-1 | 0 - 1 |

Full text of H-statements: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Suspected of causing cancer.

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- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see ... on this label). If skin irritation or rash occurs:
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Consult an eye specialist. Get medical advice/attention.
- First-aid measures after ingestion : Immediately call a POISON CENTER or doctor/physician.

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

- Symptoms/injuries : Suspected of causing genetic defects.
- Symptoms/injuries after inhalation : May cause an allergic skin reaction.
- Symptoms/injuries after skin contact : Causes skin irritation.
- Symptoms/injuries after eye contact : Causes serious eye irritation.
- Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

No additional information available

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Flammable liquid and vapour.
- Explosion hazard : May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

No additional information available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

No additional information available

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.
- Precautions for safe handling : No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing mist, fume, dust, vapours. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood.
- Hygiene measures : Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof ventilating equipment.
- Storage conditions : Keep container tightly closed.
- Incompatible materials : Heat sources.
- Maximum storage period : 12 months Shelf life to guarantee the quality and properties of the product; After this period, it is recommended to control organoleptic and physicochemical properties before using the raw material.
- Storage temperature : ≈ 18 (5 - 25) °C

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear respiratory protection

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|-------------------------------|
| Physical state | : Liquid |
| Appearance | : Clear. |
| Colour | : Yellow. amber. Brown. |
| Odour | : camphoric. |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : 48 °C |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Flammable liquid and vapour |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : 0.905 - 0.926 |
| Solubility | : Insoluble in water. |
| Log Pow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

Refractive index : 1.46 - 1.472

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Open flame. Overheating. Direct sunlight. Heat. Sparks.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

May release flammable gases.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| MYRTLE OIL MOROCCO (84082-67-7) | |
|--|--|
| LD50 oral | 3679.99 ml/kg |
| MYRTENYL ACETATE (1079-01-2) | |
| LD50 oral rat | 2600 mg/kg |
| EUCALYPTOL (470-82-6) | |
| LD50 oral rat | 2480 ml/kg |
| ALPHA-PINENES (80-56-8) | |
| LD50 oral rat | 3700 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg |
| D-LIMONENE (5989-27-5) | |
| LD50 oral rat | 4400 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg |
| GERANYL ACETATE (105-87-3) | |
| LD50 oral rat | 6330 mg/kg |
| , Dermal, Guinea pig | = 100 mg (24 Hours, May cause moderate irritation.) |
| Skin irritation, Dermal, rabbit | = 100 mg (24 Hours, Notes to physician : Risk of severe skin irritation) |
| LINALOOL (78-70-6) | |
| LD50 oral rat | 2790 mg/kg |
| LD50 oral | 3120 mg/kg LD50 oral mouse |
| LD50 dermal rabbit | 5610 mg/kg |
| METHYL EUGENOL (93-15-2) | |
| LD50 oral rat | 810 mg/kg |
| LD50 dermal rabbit | > 2025 |
| LC50 inhalation rat (mg/l) | > 4800 mg/kg |
| GERANIOL (106-24-1) | |
| LD50 oral rat | 3600 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg |
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Suspected of causing genetic defects. |
| Carcinogenicity | : Suspected of causing cancer. |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single exposure) | : Not classified |
| Specific target organ toxicity (repeated exposure) | : Not classified |
| Aspiration hazard | : May be fatal if swallowed and enters airways. |

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Very toxic to aquatic life with long lasting effects.

| EUCALYPTOL (470-82-6) | |
|--------------------------------|---|
| LC50 fish 1 | 102 mg/l Pimephales promela (fathead minnow) - 96H |
| ALPHA-PINENES (80-56-8) | |
| LC50 fish 1 | 0.28 mg/l Pimephales promela (fathead minnow) - 96h |
| LC50 other aquatic organisms 1 | 41 mg/l EC50 48h - Daphnia magna [mg/l] |
| D-LIMONENE (5989-27-5) | |
| LC50 fish 1 | 0.702 mg/l Pimephales promela (fathead minnow) -96h |
| EC50 Daphnia 1 | 69.6 daphnia - 48h |
| LINALOOL (78-70-6) | |
| LC50 fish 1 | 27.8 mg/l EC 50 (fish : rainbow trout) : - 96h |

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| D-LIMONENE (5989-27-5) | |
|---------------------------------|--|
| LC50 other aquatic organisms 1 | 88.3 mg/l <i>Desmodesmus subspicatus</i> (green algae) - 96h |
| EC50 <i>Daphnia</i> 1 | 59 mg/l EC50 48h - <i>Daphnia magna</i> [mg/l] |
| NOEC chronic fish | 3.5 mg/l <i>Oncorhynchus mykiss</i> (Rainbow trout) - 96h |
| NOEC chronic crustacea | 25 mg/l <i>daphnia</i> - 48h |
| METHYL EUGENOL (93-15-2) | |
| LC50 fish 1 | 6 mg/l <i>Oncorhynchus mykiss</i> (Rainbow trout) - 96h |
| GERANIOL (106-24-1) | |
| LC50 fish 1 | env. 22 mg/l <i>Brachydanio rerio</i> (zebra-fish) - 96h |
| EC50 <i>Daphnia</i> 1 | 10.8 mg/l EC50 48h - <i>Daphnia magna</i> [mg/l] |
| EC50 other aquatic organisms 1 | 13.1 mg/l <i>Desmodesmus subspicatus</i> (green algae) -72h |

12.2. Persistence and degradability

| MYRTLE OIL MOROCCO (84082-67-7) | |
|--|--|
| Persistence and degradability | May cause long-term adverse effects in the environment. |
| ALPHA-PINENES (80-56-8) | |
| Persistence and degradability | Readily biodegradable. May cause long-term adverse effects in the environment. |
| D-LIMONENE (5989-27-5) | |
| Persistence and degradability | May cause long-term adverse effects in the environment. |
| GERANYL ACETATE (105-87-3) | |
| Persistence and degradability | May cause long-term adverse effects in the environment. |
| LINALOOL (78-70-6) | |
| Persistence and degradability | Readily biodegradable. Not established. |
| Biodegradation | 100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B |
| ALPHA-TERPINEOL (98-55-5) | |
| Persistence and degradability | Not established. |
| METHYL EUGENOL (93-15-2) | |
| Persistence and degradability | May cause long-term adverse effects in the environment. |
| GERANIOL (106-24-1) | |
| Persistence and degradability | Readily biodegradable. Not established. |
| Biodegradation | 80 - 100 % aërobic, Exposure duration 3 days |

12.3. Bioaccumulative potential

| ALPHA-PINENES (80-56-8) | |
|-----------------------------------|------------------|
| Log Pow | 4.834 |
| Bioaccumulative potential | Not established. |
| D-LIMONENE (5989-27-5) | |
| Bioaccumulative potential | Not established. |
| GERANYL ACETATE (105-87-3) | |
| Log Kow | 4.04 |
| Bioaccumulative potential | Not established. |
| LINALOOL (78-70-6) | |
| Log Pow | 2.97 |
| Bioaccumulative potential | Not established. |
| ALPHA-TERPINEOL (98-55-5) | |
| Bioaccumulative potential | Not established. |
| METHYL EUGENOL (93-15-2) | |
| Log Kow | 3.03 |
| Bioaccumulative potential | Not established. |
| GERANIOL (106-24-1) | |
| Log Pow | 2.5 at 25 °C |
| Bioaccumulative potential | Not established. |

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

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12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container to contents/container to agreemented companies according to national regulations.

Additional information : Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials : Hazardous waste due to toxicity.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not regulated for transport

UN-No. (ADR) : 1169

14.2. UN proper shipping name

Proper Shipping Name (ADR) : EXTRACTS, AROMATIC, LIQUID

Transport document description (ADR) : UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 3

Danger labels (ADR) : 3



14.4. Packing group

Packing group (ADR) : III

14.5. Environmental hazards

Dangerous for the environment : Yes

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : F1

Special provisions (ADR) : 601, 640E

Limited quantities (ADR) : 5I

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions (ADR) : T2

Portable tank and bulk container special provisions (ADR) : TP1

Tank code (ADR) : LGBF

Vehicle for tank carriage : FL

Transport category (ADR) : 3

Special provisions for carriage - Packages (ADR) : V12

Special provisions for carriage - Operation (ADR) : S2

Hazard identification number (Kemler No.) : 30

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Orange plates

:



Tunnel restriction code (ADR)

: D/E

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

| | |
|--|--|
| 3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008 | EUCALYPTOL - ALPHA-PINENES - D-LIMONENE - GERANYL ACETATE - LINALOOL - ALPHA-TERPINEOL - METHYL EUGENOL - GERANIOL |
| 3.a. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F | MYRTLE OIL MOROCCO - EUCALYPTOL - ALPHA-PINENES - D-LIMONENE |
| 3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 | MYRTLE OIL MOROCCO - ALPHA-PINENES - D-LIMONENE - GERANYL ACETATE - LINALOOL - ALPHA-TERPINEOL - METHYL EUGENOL - GERANIOL |
| 3.c. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1 | MYRTLE OIL MOROCCO - ALPHA-PINENES - D-LIMONENE - GERANYL ACETATE - METHYL EUGENOL |
| 28. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Carcinogen category 1A or 1B (Table 3.1) or Carcinogen category 1 or 2 (Table 3.2) and listed as follows: Carcinogen category 1A (Table 3.1)/Carcinogen category 1 (Table 3.2) listed in Appendix 1 Carcinogen category 1B (Table 3.1)/Carcinogen category 2 (Table 3.2) listed in Appendix 2 | MYRTLE OIL MOROCCO |
| 29. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Germ cell Mutagen category 1A or 1B (Table 3.1) or Mutagen category 1 or 2 (Table 3.2) and listed as follows: Mutagen category 1A (Table 3.1)/Mutagen category 1 (Table 3.2) listed in Appendix 3 Mutagen category 1B (Table 3.1)/Mutagen category 2 (Table 3.2) listed in Appendix 4 | MYRTLE OIL MOROCCO |
| 40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. | EUCALYPTOL - ALPHA-PINENES - D-LIMONENE |

MYRTLE OIL MOROCCO is not on the REACH Candidate List

Contains no substance on the REACH candidate list

MYRTLE OIL MOROCCO is not on the REACH Annex XIV List

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) 2, hazard to waters (Classification according to VwVwS, Annex 3;ID No. 6258)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

| | |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |

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| | |
|-------------------|---|
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Carc. 2 | Carcinogenicity, Category 2 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Muta. 2 | Germ cell mutagenicity, Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Sensitisation — Skin, Category 1 |
| H226 | Flammable liquid and vapour |
| H302 | Harmful if swallowed |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H341 | Suspected of causing genetic defects |
| H351 | Suspected of causing cancer |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| H411 | Toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product