

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 18/05/2023 Revision date: 07/08/2025 Supersedes version of: 20/12/2024 Version: 2.0

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

#### 1.1. Product identifier

Product form : Mixture

 Trade name
 : APPLE CINNAMON #EU24196F

 UFI
 : PC05-N2FN-K00P-6YQX

Product code : EU24196F

Type of product : Perfumes, fragrances
Product group : Trade product

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

## Relevant identified uses

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

Industrial

Use of the substance/mixture : Perfumes, fragrances Function or use category : Odour agents

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

FRENCH COLOR & FRAGRANCE INTERNATIONAL GmbH

Mittlerer Weg 35 DE 79424 Auggen

Germany

T 49-7631-931-8900

SDS@frenchcolor.com, www.frenchcolor.com

## 1.4. Emergency telephone number

Emergency number : 1-800-255-3924; +01-813-248-0585; China:+400-120-0751; Mexico:+01-800-099-0731;

Brazil: +0-800-591-6042; India: +000-800-100-4086

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment – Chronic Hazard, H411

Category 2

Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

Harmful to aquatic life with long lasting effects. Causes skin irritation. Causes serious eye irritation. Toxic to aquatic life with long lasting effects. May cause an allergic skin reaction.

#### 2.2. Label elements

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

Hazard pictograms (CLP) :





GHS07

GHS09

Signal word (CLP) : Warning

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Contains : COUMARIN; Eugenol; Cinnamic aldehyde; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-

tetramethyl-2-naphthalenyl)ethanone; Methyl cinnamate; Clove Leaf Oil; Eucalyptus oil;

Triplal (Vertocitral); Linalyl acetate; Linalool

Hazard statements (CLP) : H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.

## 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

#### **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

| Name  | Product identifier   | %                 | Classification according to<br>Regulation (EC) No. 1272/2008<br>[CLP]  |
|---|--|-------------------|--|
| Verdox  | CAS-No.: 88-41-5<br>EC-No.: 201-828-7<br>REACH-no: 01-2119970713-<br>33                                | 11.2 –<br>22.4215 | Aquatic Chronic 2, H411  |
| Phenylpropyl alcohol  | CAS-No.: 122-97-4<br>EC-No.: 204-587-6   | 3.5 – 6.9955      | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319  |
| Diethyl malonate  | CAS-No.: 105-53-3<br>EC-No.: 203-305-9<br>REACH-no: 01-2119886972-<br>18                               | 3.1 – 6.2818      | Eye Irrit. 2, H319   |
| COUMARIN  | CAS-No.: 91-64-5<br>EC-No.: 202-086-7<br>REACH-no: 01-2119943756-<br>26                                | 2.5 – 4.9327      | Acute Tox. 4 (Oral), H302<br>Skin Sens. 1B, H317   |
| Eugenol   | CAS-No.: 97-53-0<br>EC-No.: 202-589-1<br>REACH-no: 01-2119971802-<br>33                                | 2.2 – 4.4843      | Acute Tox. 4 (Oral), H302<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317   |
| Ethyl acetoacetate substance with national workplace exposure limit(s) (RO) | CAS-No.: 141-97-9<br>EC-No.: 205-516-1   | 1.1 – 2.2422      | Not classified   |
| Cinnamic aldehyde   | CAS-No.: 104-55-2<br>EC-No.: 203-213-9<br>EC Index-No.: 606-155-00-6<br>REACH-no: 01-2119935242-<br>45 | 1.1 – 2.2422      | Acute Tox. 4 (Dermal), H312<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1A, H317<br>Aquatic Chronic 3, H412 |

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| Name  | Product identifier   | %            | Classification according to<br>Regulation (EC) No. 1272/2008<br>[CLP]   |
|---|--|--------------|---|
| 2(3H)-Furanone, 5-heptyldihydro-  | CAS-No.: 104-67-6<br>EC-No.: 203-225-4<br>REACH-no: 01-2119959333-<br>34                               | 0.9 – 1.8834 | Aquatic Chronic 3, H412   |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone                        | CAS-No.: 54464-57-2<br>EC-No.: 259-174-3<br>REACH-no: 01-2119489989-<br>04                             | 0.9 – 1.7937 | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 1, H410  |
| Methyl cinnamate  | CAS-No.: 103-26-4<br>EC-No.: 203-093-8<br>REACH-no: 01-2119979458-<br>16                               | 0.8 – 1.5247 | Skin Sens. 1B, H317   |
| Clove Leaf Oil  | CAS-No.: 8000-34-8<br>EC-No.: 616-772-2  | 0.7 – 1.435  | Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304   |
| Eucalyptus oil  | CAS-No.: 8000-48-4<br>EC-No.: 283-406-2<br>REACH-no: 01-2119978250-<br>37                              | 0.3 – 0.6278 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 |
| Triplal (Vertocitral)   | CAS-No.: 68039-49-6<br>EC-No.: 268-264-1<br>EC Index-No.: 605-043-00-4                                 | 0.2 – 0.4489 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412                      |
| Linalyl acetate   | CAS-No.: 115-95-7<br>EC-No.: 204-116-4<br>REACH-no: 01-2119454789-<br>19                               | 0.2 – 0.3587 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317   |
| Linalool  | CAS-No.: 78-70-6<br>EC-No.: 201-134-4<br>EC Index-No.: 603-235-00-2<br>REACH-no: 01-2119474016-        | 0.1 – 0.2691 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317  |
| benzyl benzoate   | CAS-No.: 120-51-4<br>EC-No.: 204-402-9<br>EC Index-No.: 607-085-00-9<br>REACH-no: 01-2119976371-<br>33 | 0.1 – 0.1186 | Acute Tox. 4 (Oral), H302<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411                                   |
| Alcohol C-10<br>substance with national workplace exposure limit(s)<br>(BG, DE, LT, LV, RO, CH) | CAS-No.: 112-30-1<br>EC-No.: 203-956-9   | 0 – 0.0077   | Aquatic Chronic 3, H412   |
| Aldehyde C-6 substance with national workplace exposure limit(s) (FI, PL)                       | CAS-No.: 66-25-1<br>EC-No.: 200-624-5  | 0 – 0.0019   | Flam. Liq. 3, H226  |
| Caproic acid substance with national workplace exposure limit(s) (BG, LT, LV)                   | CAS-No.: 142-62-1<br>EC-No.: 205-550-7   | 0 – 0.0001   | Skin Corr. 1C, H314<br>Eye Dam. 1, H318   |

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| Specific concentration limits: |  |   |
|--------------------------------|--|---|
| Name                           | Product identifier   | Specific concentration limits (%)   |
| Cinnamic aldehyde              | CAS-No.: 104-55-2<br>EC-No.: 203-213-9<br>EC Index-No.: 606-155-00-6<br>REACH-no: 01-2119935242-<br>45 | (0.001 < C < 0.01) EUH208<br>(0.01 ≤ C < 0.1) Skin Sens. 1; H317<br>(0.1 ≤ C < 100) Skin Sens. 1A; H317 |

Full text of H- and EUH-statements: see section 16

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

| First-aid measures general            | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).   |
|---------------------------------------|---|
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.  |
| First-aid measures after skin contact | : Wash with plenty of water/ Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Get medical advice/attention. Specific treatment (see Call a physician immediately on this label). If skin irritation or rash occurs: Get immediate medical advice/attention. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact  | : If eye irritation persists: Get medical advice/attention. Get medical advice/attention. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  |
| First-aid measures after ingestion    | : Do NOT induce vomiting. Obtain emergency medical attention. Rinse mouth. Call a   |

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

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation : May cause an allergic skin reaction.

Symptoms/effects after skin contact Causes skin irritation. Irritation. May cause an allergic skin reaction.

unwell.

Symptoms/effects after eye contact : Causes serious eye irritation. Eye irritation.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media : Sand. Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

## 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

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#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.

Avoid breathing dust/fume/gas/mist/vapours/spray.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew

with proper protection. For further information refer to section 8: "Exposure

controls/personal protection".

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or

diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection. For further information refer to section 13.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wash hands and other exposed areas with mild

soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or

smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep away

from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep

container closed when not in use. Store in a well-ventilated place. Keep cool. Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Storage temperature : 25 °C

Storage area : Store in a well-ventilated place. Store away from heat.

Special rules on packaging : Store in a closed container.

Packaging materials : Do not store in corrodable metal.

## 7.3. Specific end use(s)

No additional information available

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

No additional information available

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#### 8.2. Exposure controls

#### Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Personal protective equipment symbol(s):





#### Eye and face protection

#### Eye protection:

Chemical goggles or safety glasses. Safety glasses

#### Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Wear protective gloves.

#### Respiratory protection

#### Respiratory protection:

Wear appropriate mask

## **Environmental exposure controls**

#### **Environmental exposure controls:**

Avoid release to the environment.

#### Other information:

Do not eat, drink or smoke during use.

## **SECTION 9: Physical and chemical properties**

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

Physical state : Liquid

Colour : light yellow. amber. Conforms to standard.

Odour : characteristic. characteristic.

Odour threshold Not available Melting point Not applicable Freezing point Not available Boiling point Not available Flammability Not applicable Lower explosion limit : Not available Upper explosion limit Not available Flash point · > 93.3 °C Auto-ignition temperature Not available Decomposition temperature Not available : Not available рΗ Viscosity, kinematic : Not available Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available

Vapour pressure : 0.002087954 mm Hg (calculated value)

Vapour pressure at  $50^{\circ}$ C : Not available Density : Not available Relative density :  $\approx 1.02$  Relative vapour density at  $20^{\circ}$ C : Not available

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Particle characteristics : Not applicable

## 9.2. Other information

Other safety characteristics

VOC content : 4.0141 % (calculated value)(CARB VOC) (%w/w)

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

## 10.2. Chemical stability

Not established.

## 10.3. Possibility of hazardous reactions

Not established.

## 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

## 10.5. Incompatible materials

Strong acids. Strong bases.

## 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| Verdox (88-41-5)                |                                  |  |
|---------------------------------|----------------------------------|--|
| LD50 oral rat                   | 4600 mg/kg (Source: NLM_CIP)     |  |
| LD50 oral                       | 4600 mg/kg                       |  |
| Phenylpropyl alcohol (122-97-4) |                                  |  |
| LD50 oral rat                   | 2250 mg/kg (Source: NICNAS)      |  |
| LD50 oral                       | 2275 mg/kg bodyweight            |  |
| LD50 dermal rabbit              | < 5000 mg/kg (Source: NICNAS)    |  |
| LD50 dermal                     | 5000 mg/kg bodyweight            |  |
| Diethyl malonate (105-53-3)     |                                  |  |
| LD50 oral rat                   | 14900 μl/kg (Source: NLM_CIP)    |  |
| LD50 dermal rabbit              | > 16960 mg/kg (Source: ECHA_API) |  |
| COUMARIN (91-64-5)              |                                  |  |
| LD50 oral rat                   | > 5000 mg/kg (Source: JAPAN_GHS) |  |
| LD50 dermal rat                 | 293 mg/kg (Source: ECHA_API)     |  |

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| Eugenol (97-53-0)                           |  |  |
|---|--|--|
| LD50 oral rat                               | 1930 mg/kg (Source: NZ_CCID)                   |  |
| LD50 oral                                   | 2500 mg/kg bodyweight                          |  |
| LC50 Inhalation - Rat                       | > 2.58 mg/l/4h                                 |  |
| Ethyl acetoacetate (141-97-9)               |  |  |
| LD50 oral rat                               | 3980 mg/kg (Source: NLM_CIP)                   |  |
| LD50 dermal rabbit                          | > 5000 mg/kg (Source: NLM_CIP)                 |  |
| Cinnamic aldehyde (104-55-2)                |  |  |
| LD50 oral rat                               | 2220 mg/kg (Source: NLM_CIP)                   |  |
| LD50 oral                                   | 2220 mg/kg                                     |  |
| LD50 dermal rabbit                          | 1260 mg/kg (Source: EPA_HPV)                   |  |
| LD50 dermal                                 | 1260 mg/kg                                     |  |
| 2(3H)-Furanone, 5-heptyldihydro- (104-67-6) |  |  |
| LD50 oral rat                               | 18500 mg/kg (Source: NLM_CIP)                  |  |
| LD50 dermal rat                             | > 2000 mg/kg (Source: ECHA)                    |  |
| Methyl cinnamate (103-26-4)                 |  |  |
| LD50 oral rat                               | 2610 mg/kg (Source: NLM_CIP)                   |  |
| LD50 oral                                   | 2610 mg/kg                                     |  |
| LD50 dermal rabbit                          | > 5000 mg/kg (Source: ECHA_API)                |  |
| Clove Leaf Oil (8000-34-8)                  |  |  |
| LD50 oral rat                               | 1370 mg/kg (Source: NZ_CCID)                   |  |
| LD50 oral                                   | 2650 mg/kg bodyweight                          |  |
| LD50 dermal rabbit                          | 1200 mg/kg (Source: NLM_CIP)                   |  |
| LD50 dermal                                 | 2500 mg/kg bodyweight                          |  |
| Eucalyptus oil (8000-48-4)                  |  |  |
| LD50 oral rat                               | 2480 mg/kg (Source: NLM_CIP)                   |  |
| Triplal (Vertocitral) (68039-49-6)          |  |  |
| LD50 oral                                   | 2330 mg/kg                                     |  |
| Linalyl acetate (115-95-7)                  |  |  |
| LD50 oral rat                               | 14550 mg/kg (Source: EPA_HPV)                  |  |
| LD50 dermal rabbit                          | > 5000 mg/kg (Source: ECHA)                    |  |
| LC50 Inhalation - Rat                       | > 18.94 mg/l (Exposure time: 8 h Source: ECHA) |  |
| Linalool (78-70-6)                          |  |  |
| LD50 oral rat                               | 2790 mg/kg (Source: NLM_CIP)                   |  |
| LD50 oral                                   | 2790 mg/kg                                     |  |
| LD50 dermal rabbit                          | 5610 mg/kg (Source: ECHA_API)                  |  |
| benzyl benzoate (120-51-4)                  |  |  |
| LD50 oral rat                               | > 2000 mg/kg (Source: ECHA_API)                |  |

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| benzyl benzoate (120-51-4)   |  |
|--|--|
| belizyi belizoate (120-51-4)   |  |
| LD50 oral  | 1160 mg/kg bodyweight  |
| LD50 dermal rabbit   | 4000 mg/kg (Source: NLM_CIP)   |
| Alcohol C-10 (112-30-1)  |  |
| LD50 oral rat  | 4720 mg/kg (Source: NZ_CCID)   |
| LD50 dermal rat  | > 5000 mg/kg (Source: ECHA_API)  |
| LC50 Inhalation - Rat  | > 71 mg/l (Exposure time: 1 h Source: ECHA_API)  |
| Aldehyde C-6 (66-25-1)   |  |
| LD50 oral rat  | 4890 mg/kg (Source: NLM_CIP)   |
| LD50 dermal rabbit   | > 8100 mg/kg (Source: ECHA_API)  |
| Caproic acid (142-62-1)  |  |
| LD50 oral rat  | 3 g/kg (Source: NLM_HSDB)  |
| LD50 dermal rabbit   | 630 mg/kg (Source: NLM_HSDB)   |
| Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Additional information Carcinogenicity Additional information  COUMARIN (91-64-5) | <ul> <li>: Causes skin irritation.</li> <li>: Causes serious eye irritation.</li> <li>: May cause an allergic skin reaction.</li> <li>: Not classified</li> <li>: Based on available data, the classification criteria are not met</li> <li>: Not classified</li> <li>: Based on available data, the classification criteria are not met</li> </ul>  |
| IARC group   | 3 - Not classifiable   |
| Eugenol (97-53-0)  |  |
| IARC group   | 3 - Not classifiable   |
| Reproductive toxicity Additional information STOT-single exposure Additional information STOT-repeated exposure Additional information Aspiration hazard   | Not classified Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met Not classified Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met |
| Additional information  benzyl benzoate (120-51-4)   | . Dased on available data, the dassification chieffa are not met   |

## 11.2. Information on other hazards

## Other information

Potential adverse human health effects and symptoms

: Based on available data, the classification criteria are not met, Harmful if swallowed.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects.

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

Hazardous to the aquatic environment, short-term : Not classified

(acute)

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Hazardous to the aquatic environment, long–term : Toxic to aquatic life with long lasting effects. (chronic)

| Diothyl malonate (405 52 2)                 |  |
|---|--|
| Diethyl malonate (105-53-3)                 |  |
| LC50 - Fish [1]                             | 10.3 – 13.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |
| EC50 - Crustacea [1]                        | 202.3 mg/l (Exposure time: 48 h - Species: Daphnia magna)  |
| EC50 72h - Algae [1]                        | 508.2 mg/l (Species: Desmodesmus subspicatus)  |
| Eugenol (97-53-0)                           |  |
| LC50 - Fish [1]                             | 13 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)                  |
| Ethyl acetoacetate (141-97-9)               |  |
| LC50 - Fish [1]                             | 298 mg/l (Exposure time: 96 h - Species: Pimephales promelas Source: IUCLID)                     |
| LC50 - Fish [2]                             | 290 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: IUCLID)                     |
| EC50 - Crustacea [1]                        | 646 mg/l (Exposure time: 48 h - Species: Daphnia magna)  |
| EC50 72h - Algae [1]                        | > 500 mg/l (Species: Desmodesmus subspicatus)  |
| 2(3H)-Furanone, 5-heptyldihydro- (104-67-6) |  |
| LC50 - Fish [1]                             | 569 mg/l 96 h  |
| EC50 - Crustacea [1]                        | 5.85 mg/l 48 h   |
| EC50 - Other aquatic organisms [1]          | 5.94 mg/l 72 h   |
| Methyl cinnamate (103-26-4)                 |  |
| LC50 - Fish [1]                             | 2.76 mg/l (Exposure time: 96 h - Species: Danio rerio [static] Source: ECHA)                     |
| Linalyl acetate (115-95-7)                  |  |
| LC50 - Fish [1]                             | 11 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through] Source: ECHA)             |
| Linalool (78-70-6)                          |  |
| LC50 - Fish [1]                             | 27.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: ECHA)             |
| EC50 - Crustacea [1]                        | 20 mg/l (Exposure time: 48 h - Species: Daphnia magna)   |
| EC50 96h - Algae [1]                        | 88.3 mg/l (Species: Desmodesmus subspicatus)   |
| benzyl benzoate (120-51-4)                  |  |
| LC50 - Fish [1]                             | 2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)                |
| NOEC (chronic)                              | 0.168 mg/l   |
| Alcohol C-10 (112-30-1)                     |  |
| LC50 - Fish [1]                             | 2.2 – 2.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)   |
| LC50 - Fish [2]                             | 4.12 – 6.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)        |
| EC50 - Crustacea [1]                        | 3 mg/l (Exposure time: 48 h - Species: Daphnia magna)  |
| Aldehyde C-6 (66-25-1)                      |  |
| LC50 - Fish [1]                             | 12 – 16.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)   |

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| Caproic acid (142-62-1)                         |  |  |
|---|--|--|
| LC50 - Fish [1]                                 | 306 – 334 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |  |
| LC50 - Fish [2]                                 | 88 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)              |  |
| 12.2. Persistence and degradability             |  |  |
| APPLE CINNAMON #EU24196F                        |  |  |
| Persistence and degradability                   | May cause long-term adverse effects in the environment. Not established.                       |  |
| Verdox (88-41-5)                                |  |  |
| Persistence and degradability                   | Rapidly degradable   |  |
| Phenylpropyl alcohol (122-97-4)                 |  |  |
| Persistence and degradability                   | Rapidly degradable   |  |
| Diethyl malonate (105-53-3)                     |  |  |
| Persistence and degradability                   | Rapidly degradable   |  |
| COUMARIN (91-64-5)                              |  |  |
| Persistence and degradability                   | Rapidly degradable   |  |
| Eugenol (97-53-0)                               |  |  |
| Persistence and degradability                   | Rapidly degradable   |  |
| Ethyl acetoacetate (141-97-9)                   |  |  |
| Persistence and degradability                   | Rapidly degradable   |  |
| Cinnamic aldehyde (104-55-2)                    |  |  |
| Persistence and degradability                   | Rapidly degradable   |  |
| 2(3H)-Furanone, 5-heptyldihydro- (104-67-6)     |  |  |
| Persistence and degradability                   | Rapidly degradable   |  |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethy | vl-2-naphthalenyl)ethanone (54464-57-2)  |  |
| Persistence and degradability                   | Rapidly degradable   |  |
| Methyl cinnamate (103-26-4)                     |  |  |
| Persistence and degradability                   | Not established.   |  |
| Clove Leaf Oil (8000-34-8)                      |  |  |
| Persistence and degradability                   | Rapidly degradable   |  |
| Eucalyptus oil (8000-48-4)                      |  |  |
| Persistence and degradability                   | Not established.   |  |
| Triplal (Vertocitral) (68039-49-6)              |  |  |
| Persistence and degradability                   | Rapidly degradable   |  |
| Linalyl acetate (115-95-7)                      |  |  |
| Persistence and degradability                   | Rapidly degradable   |  |
| Linalool (78-70-6)                              |  |  |
| Persistence and degradability                   | Rapidly degradable   |  |

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| benzyl benzoate (120-51-4)                      |   |
|---|---|
| Persistence and degradability                   | May cause long-term adverse effects in the environment. |
| Alcohol C-10 (112-30-1)                         |   |
| Persistence and degradability                   | Rapidly degradable                                      |
| Aldehyde C-6 (66-25-1)                          |   |
| Persistence and degradability                   | Rapidly degradable                                      |
| Caproic acid (142-62-1)                         |   |
| Persistence and degradability                   | Rapidly degradable                                      |
| 12.3. Bioaccumulative potential                 |   |
| APPLE CINNAMON #EU24196F                        |   |
| Bioaccumulative potential                       | Not established.  |
| Phenylpropyl alcohol (122-97-4)                 |   |
| Partition coefficient n-octanol/water (Log Pow) | 1.6 (at 35 °C (at pH 7)                                 |
| Diethyl malonate (105-53-3)                     |   |
| Partition coefficient n-octanol/water (Log Pow) | 0.96  |
| COUMARIN (91-64-5)                              |   |
| Partition coefficient n-octanol/water (Log Pow) | ≥ 1.91 – ≤ 1.51 (at 25 °C (at pH 7)                     |
| Eugenol (97-53-0)                               |   |
| Partition coefficient n-octanol/water (Log Pow) | 1.83 (at 30 °C (at pH 5.5)                              |
| Ethyl acetoacetate (141-97-9)                   |   |
| Partition coefficient n-octanol/water (Log Pow) | 0.8 (at 20 °C)  |
| Cinnamic aldehyde (104-55-2)                    |   |
| Partition coefficient n-octanol/water (Log Pow) | 2.1065 (at 25 °C)                                       |
| 2(3H)-Furanone, 5-heptyldihydro- (104-67-6)     |   |
| Partition coefficient n-octanol/water (Log Pow) | 3.6 (at 25 °C)  |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethy | vI-2-naphthalenyl)ethanone (54464-57-2)                 |
| Partition coefficient n-octanol/water (Log Pow) | 5.65 (at 30°C)  |
| Methyl cinnamate (103-26-4)                     |   |
| Partition coefficient n-octanol/water (Log Pow) | 2.68 (at 25 °C (at pH >4.73-<7.06)                      |
| Bioaccumulative potential                       | Not established.  |
| Eucalyptus oil (8000-48-4)                      |   |
| Bioaccumulative potential                       | Not established.  |
| Triplal (Vertocitral) (68039-49-6)              |   |
| Partition coefficient n-octanol/water (Log Pow) | 2.6   |
| Linalyl acetate (115-95-7)                      |   |
| Partition coefficient n-octanol/water (Log Pow) | 3.9 (at 25 °C)  |

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| Linalool (78-70-6)                              |                         |  |
|---|-------------------------|--|
| Partition coefficient n-octanol/water (Log Pow) | 2.9 (at 20 °C (at pH 7) |  |
| benzyl benzoate (120-51-4)                      |                         |  |
| Partition coefficient n-octanol/water (Log Pow) | 3.97 (at 25 °C)         |  |
| Bioaccumulative potential                       | Not established.        |  |
| Alcohol C-10 (112-30-1)                         |                         |  |
| Partition coefficient n-octanol/water (Log Pow) | 4.5 (at 25 °C (at pH 6) |  |
| Aldehyde C-6 (66-25-1)                          |                         |  |
| Partition coefficient n-octanol/water (Log Pow) | 2.3 (at 25 °C (at pH 5) |  |
| Caproic acid (142-62-1)                         |                         |  |
| Partition coefficient n-octanol/water (Log Pow) | 1.88                    |  |

## 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Endocrine disrupting properties

No additional information available

## 12.7. Other adverse effects

| APPLE CINNAMON #EU24196F    |                                   |  |
|-----------------------------|-----------------------------------|--|
| Other information           | Avoid release to the environment. |  |
| Methyl cinnamate (103-26-4) |                                   |  |
| Other information           | Avoid release to the environment. |  |
| Eucalyptus oil (8000-48-4)  |                                   |  |
| Other information           | Avoid release to the environment. |  |
| benzyl benzoate (120-51-4)  |                                   |  |
| Other information           | Avoid release to the environment. |  |

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Waste treatment methods

Product/Packaging disposal recommendations

Ecological waste information HP Code

- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with local/national laws and regulations.
- : Avoid release to the environment.
- : HP4 "Irritant skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

## **SECTION 14: Transport information**

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

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| ADR   | IMDG   | IATA   | ADN  | RID  |  |
|---|--|--|--|--|--|
| 14.1. UN number or ID number  |  |  |  |  |  |
| UN 3082   | UN 3082  | UN 3082  | UN 3082  | UN 3082  |  |
| 14.2. UN proper shipping name   |  |  |  |  |  |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (VERDOX)                      | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (VERDOX)   | Environmentally hazardous<br>substance, liquid, n.o.s.<br>(VERDOX)       | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (VERDOX)                 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (VERDOX)                 |  |
| Transport document descr  | iption   |  |  |  |  |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (VERDOX), 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (VERDOX), 9, III, MARINE POLLUTANT                   | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (VERDOX), 9, | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (VERDOX), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (VERDOX), 9, III |  |
| 14.3. Transport hazard o  | class(es)  |  |  |  |  |
| 9   | 9  | 9  | 9  | 9  |  |
| **************************************  |  |  | ***************************************                                      | ***************************************                                      |  |
| 14.4. Packing group   | 14.4. Packing group  |  |  |  |  |
| III   | III  | III  | III  | III  |  |
| 14.5. Environmental hazards   |  |  |  |  |  |
| Dangerous for the environment: Yes  | Dangerous for the<br>environment: Yes<br>Marine pollutant: Yes<br>EmS-No. (Fire): F-A<br>EmS-No. (Spillage): S-F | Dangerous for the environment: Yes                                       | Dangerous for the environment: Yes   | Dangerous for the<br>environment: Yes  |  |
| No supplementary informatio   | n available  |  |  | ı  |  |

## 14.6. Special precautions for user

### **Overland transport**

Classification code (ADR) : M6

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5l Excepted quantities (ADR) : E1

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

Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions : TP1, TP29

(ADR)

Tank code (ADR) : LGBV
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, unloading : CV13

and handling (ADR)

Hazard identification number (Kemler No.) : 90

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Orange plates : 90

3082

Tunnel restriction code (ADR)

#### Transport by sea

Special provisions (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 : LP01, P001 Packing instructions (IMDG) Special packing provisions (IMDG) : PP1 : IBC03 IBC packing instructions (IMDG) : T4 Tank instructions (IMDG) Tank special provisions (IMDG) : TP1, TP29 Stowage category (IMDG) : A

#### Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L

Special provisions (IATA) : A97, A158, A197, A215

ERG code (IATA) : 9L

#### **Inland waterway transport**

Classification code (ADN) : M6

Special provisions (ADN) : 274, 335, 375, 601

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP

Number of blue cones/lights (ADN) : 0

#### Rail transport

Classification code (RID) : M6

Special provisions (RID) : 274, 335, 375, 601

Limited quantities (RID) : 5L Excepted quantities (RID) : E1

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

Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions : TP1, TP29

(RID)

Tank codes for RID tanks (RID) : LGBV

Transport category (RID) : 3

Special provisions for carriage – Packages (RID) : W12

Special provisions for carriage - Loading, unloading : CW13, CW31

and handling (RID)

Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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#### **SECTION 15: Regulatory information**

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

#### **EU-Regulations**

## **REACH Annex XVII (Restriction List)**

| EU restriction list (REACH Annex XVII) |   |   |  |
|--|---|---|--|
| Reference code                         | Applicable on   | Entry title or description  |  |
| 3(a)                                   | Eucalyptus oil ; Aldehyde<br>C-6  | 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          |  |
| 3(b)                                   | APPLE CINNAMON #EU24196F; Phenylpropyl alcohol; Diethyl malonate; Eugenol; Cinnamic aldehyde; 1- (1,2,3,4,5,6,7,8- Octahydro-2,3,8,8- tetramethyl-2- naphthalenyl)ethanone; Clove Leaf Oil; Eucalyptus oil; Triplal (Vertocitral); Linalyl acetate; Linalool; Benzyl benzoate; Caproic acid | 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 |  |
| 3(c)                                   | APPLE CINNAMON #EU24196F; Verdox; Cinnamic aldehyde; Aldehyde C-14; 1- (1,2,3,4,5,6,7,8- Octahydro-2,3,8,8- tetramethyl-2- naphthalenyl)ethanone; Eucalyptus oil; Triplal (Vertocitral); Benzyl benzoate; Alcohol C-10  | 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   |  |

## **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

## **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

#### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

#### VOC Directive (2004/42)

VOC content : 4.0141 % (calculated value)(CARB VOC) (%w/w)

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## **Explosives Precursors Regulation (EU 2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

## **Drug Precursors Regulation (EC 273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

| Abbreviations and acre | Abbreviations and acronyms:   |  |  |
|------------------------|---|--|--|
| ADN                    | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |  |  |
| ADR                    | European Agreement concerning the International Carriage of Dangerous Goods by Road             |  |  |
| ATE                    | Acute Toxicity Estimate   |  |  |
| BCF                    | Bioconcentration factor   |  |  |
| BLV                    | Biological limit value  |  |  |
| BOD                    | Biochemical oxygen demand (BOD)   |  |  |
| COD                    | Chemical oxygen demand (COD)  |  |  |
| DMEL                   | Derived Minimal Effect level  |  |  |
| DNEL                   | Derived-No Effect Level   |  |  |
| EC-No.                 | European Community number   |  |  |
| EC50                   | Median effective concentration  |  |  |
| EN                     | European Standard   |  |  |
| IARC                   | International Agency for Research on Cancer   |  |  |
| IATA                   | International Air Transport Association   |  |  |
| IMDG                   | International Maritime Dangerous Goods  |  |  |
| LC50                   | Median lethal concentration   |  |  |
| LD50                   | Median lethal dose  |  |  |
| LOAEL                  | Lowest Observed Adverse Effect Level  |  |  |
| NOAEC                  | No-Observed Adverse Effect Concentration  |  |  |
| NOAEL                  | No-Observed Adverse Effect Level  |  |  |
| NOEC                   | No-Observed Effect Concentration  |  |  |
| OECD                   | Organisation for Economic Co-operation and Development  |  |  |
| OEL                    | Occupational Exposure Limit   |  |  |
| PBT                    | Persistent Bioaccumulative Toxic  |  |  |
| PNEC                   | Predicted No-Effect Concentration   |  |  |
| RID                    | Regulations concerning the International Carriage of Dangerous Goods by Rail                    |  |  |
| SDS                    | Safety Data Sheet   |  |  |
| STP                    | Sewage treatment plant  |  |  |
| ThOD                   | Theoretical oxygen demand (ThOD)  |  |  |
| TLM                    | Median Tolerance Limit  |  |  |

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| Abbreviations and acronyms: |  |  |
|-----------------------------|--|--|
| VOC                         | Volatile Organic Compounds               |  |
| CAS-No.                     | Chemical Abstract Service number         |  |
| N.O.S.                      | Not Otherwise Specified                  |  |
| vPvB                        | Very Persistent and Very Bioaccumulative |  |
| ED                          | Endocrine disruptor                      |  |

Other information : None.

| Full text of H- and EU | Full text of H- and EUH-statements:  |  |  |
|------------------------|--|--|--|
| Acute Tox. 4 (Dermal)  | Acute toxicity (dermal), Category 4  |  |  |
| 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  |  |  |
| Aquatic Chronic 3      | Hazardous to the aquatic environment – Chronic Hazard, Category 3  |  |  |
| Asp. Tox. 1            | Aspiration hazard, Category 1  |  |  |
| EUH208                 | Contains {0 message≤name of sensitising substance> fieldvalue=_SENSITIZER_COMPONENTS}. May produce an allergic reaction. |  |  |
| 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  |  |  |
| Skin Corr. 1C          | Skin corrosion/irritation, Category 1, Sub-Category 1C   |  |  |
| Skin Irrit. 2          | Skin corrosion/irritation, Category 2  |  |  |
| Skin Sens. 1           | Skin sensitisation, Category 1   |  |  |
| Skin Sens. 1A          | Skin sensitisation, category 1A  |  |  |
| Skin Sens. 1B          | Skin sensitisation, category 1B  |  |  |
| H226                   | Flammable liquid and vapour.   |  |  |
| 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.   |  |  |
| 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.   |  |  |

The classification complies with : ATP 12

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Safety Data Sheet (SDS), EU

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.