



# Putoline Helmet Sanitizer

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Issue date: 10-10-2018 Revision date: 14-6-2021 Supersedes version of: 2-7-2020 Version: 1.6

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Putoline Helmet Sanitizer  
UFI : 6220-R003-M00S-J19H  
Product code : PW.10.17  
Type of product : Detergent  
Vaporizer : aerosol  
Product group : Trade product

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

##### 1.2.1. Relevant identified uses

Intended for general public  
Main use category : Industrial use, Professional use, Consumer use  
Use of the substance/mixture : Glass cleaner

##### 1.2.2. Uses advised against

No additional information available

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

Putoline Oil  
Dollegoorweg 15  
7602 EC Almelo - Netherlands  
T 0031 (0)546 81 81 65  
[vib@putoline.com](mailto:vib@putoline.com)

#### 1.4. Emergency telephone number

| Country        | Organisation/Company                                                                         | Address                                  | Emergency number                                                                                       | Comment |
|----------------|----------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------|---------|
| Ireland        | National Poisons Information Centre<br>Beaumont Hospital                                     | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |         |
| United Kingdom | National Poisons Information Service<br>(Cardiff Centre)<br>Gwenwyn Ward, Llandough Hospital | Penarth<br>CF64 2XX Cardiff              | 0344 892 0111                                                                                          |         |

### SECTION 2: Hazards identification

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

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

Aerosol, Category 1 H222;H229  
Serious eye damage/eye irritation, Category 2 H319  
Full text of H-statements: see section 16

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

Pressurised container: May burst if heated. Extremely flammable aerosol. Causes serious eye irritation.

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### 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

Hazard statements (CLP)

Precautionary statements (CLP)

: Danger  
: H222 - Extremely flammable aerosol.  
: H229 - Pressurised container: May burst if heated.  
: H319 - Causes serious eye irritation.  
: P101 - If medical advice is needed, have product container or label at hand.  
: P102 - Keep out of reach of children.  
: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
: P211 - Do not spray on an open flame or other ignition source.  
: P251 - Do not pierce or burn, even after use.  
: P264 - Wash hands, forearms and face thoroughly after handling.  
: P280 - Wear protective gloves, eye protection.  
: P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
: P337+P313 - If eye irritation persists: Get medical advice/attention.  
: P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                                                                                  | Product identifier                                                                                     | %        | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------|
| propan-2-ol<br>substance with national workplace exposure limit(s)<br>(GB)            | (CAS-No.) 67-63-0<br>(EC-No.) 200-661-7<br>(EC Index-No.) 603-117-00-0<br>(REACH-no) 01-2119457558-25  | 10 – 20  | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336     |
| Butane<br>substance with national workplace exposure limit(s)<br>(GB, IE)<br>(Note K) | (CAS-No.) 106-97-8<br>(EC-No.) 203-448-7<br>(EC Index-No.) 601-004-00-0<br>(REACH-no) 01-2119474691-32 | 2,5 – 10 | Flam. Gas 1A, H220<br>Press. Gas (Comp.), H280                  |
| Propane<br>substance with a Community workplace exposure limit<br>(Note U)            | (CAS-No.) 74-98-6<br>(EC-No.) 200-827-9<br>(EC Index-No.) 601-003-00-5<br>(REACH-no) 01-2119486944-21  | 2,5 – 10 | Flam. Gas 1A, H220<br>Press. Gas (Comp.), H280                  |
| isobutane<br>substance with national workplace exposure limit(s)<br>(IE)<br>(Note K)  | (CAS-No.) 75-28-5<br>(EC-No.) 200-857-2<br>(REACH-no) 01-2119485395-27                                 | 0,1 – 1  | Flam. Gas 1A, H220<br>Press. Gas (Comp.), H280                  |

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|                                                                        |                                                                          |           |                                                                                            |
|------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------|
| Ammonia<br>substance with a Community workplace exposure limit         | (CAS-No.) 1336-21-6<br>(EC-No.) 215-647-6<br>(EC Index-No.) 007-001-01-2 | 0,1 – 0,3 | Skin Corr. 1B, H314<br>STOT SE 3, H335<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411 |
| Ethanol<br>substance with national workplace exposure limit(s)<br>(GB) | (CAS-No.) 64-17-5<br>(EC-No.) 200-578-6<br>(EC Index-No.) 603-002-00-5   | < 0,1     | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319                                                   |

Note K: The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w 1,3- butadiene (Einecs No 203-450-8), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P210-P403 shall apply.

Note U (Table 3): When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case.

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 after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water.
- 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: Get medical advice/attention.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

- Symptoms/effects after eye contact : 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 : 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

- Fire hazard : Combustible liquid. Extremely flammable aerosol.
- Explosion hazard : Pressurised container: May burst if heated.
- Hazardous decomposition products in case of fire : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

### 5.3. Advice for firefighters

- Protection during firefighting : 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

##### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Mechanically recover the product.  
Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid contact with skin and eyes. Wear personal protective equipment.  
Hygiene measures : 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 : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a well-ventilated place. Keep cool.  
Storage temperature : < 40 °C

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

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

| Butane (106-97-8)                             |                                       |
|-----------------------------------------------|---------------------------------------|
| Ireland - Occupational Exposure Limits        |                                       |
| Local name                                    | Butane, all isomers: Butane           |
| OEL STEL [ppm]                                | 1000 ppm                              |
| Regulatory reference                          | Chemical Agents Code of Practice 2020 |
| United Kingdom - Occupational Exposure Limits |                                       |
| Local name                                    | Butane                                |
| WEL TWA (OEL TWA) [1]                         | 1450 mg/m³                            |

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| Butane (106-97-8)         |                                                                                                                                    |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| WEL TWA (OEL TWA) [2]     | 600 ppm                                                                                                                            |
| WEL STEL (OEL STEL)       | 1810 mg/m <sup>3</sup>                                                                                                             |
| WEL STEL (OEL STEL) [ppm] | 750 ppm                                                                                                                            |
| Remark (WEL)              | Carc (Capable of causing cancer and/or heritable genetic damage, only applies if Butane contains more than 0.1% of buta-1,3-diene) |
| Regulatory reference      | EH40/2005 (Fourth edition, 2020). HSE                                                                                              |

| Propane (74-98-6)                                  |                                                                                                                                                                                              |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) |                                                                                                                                                                                              |
| IOEL TWA [ppm]                                     | 1000 ppm                                                                                                                                                                                     |
| Ireland - Occupational Exposure Limits             |                                                                                                                                                                                              |
| Local name                                         | Aliphatic hydrocarbon gases Alkanes (C1-C3): Propane                                                                                                                                         |
| Notes (IE)                                         | Asphx. (Gaseous chemical substances which may not produce significant physiological effects in the exposed employee, but when present in high concentrations will act as simple asphyxiants) |
| Regulatory reference                               | Chemical Agents Code of Practice 2020                                                                                                                                                        |

| propan-2-ol (67-63-0)                         |                                       |
|-----------------------------------------------|---------------------------------------|
| United Kingdom - Occupational Exposure Limits |                                       |
| Local name                                    | Propan-2-ol                           |
| WEL TWA (OEL TWA) [1]                         | 999 mg/m <sup>3</sup>                 |
| WEL TWA (OEL TWA) [2]                         | 400 ppm                               |
| WEL STEL (OEL STEL)                           | 1250 mg/m <sup>3</sup>                |
| WEL STEL (OEL STEL) [ppm]                     | 500 ppm                               |
| Regulatory reference                          | EH40/2005 (Fourth edition, 2020). HSE |

| Ammonia (1336-21-6)                                |                                   |
|----------------------------------------------------|-----------------------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) |                                   |
| IOEL TWA                                           | 14 mg/m <sup>3</sup> (indicative) |
| IOEL TWA [ppm]                                     | 20 ppm (indicative)               |
| IOEL STEL                                          | 36 mg/m <sup>3</sup> (indicative) |
| IOEL STEL [ppm]                                    | 50 ppm (indicative)               |

| Ethanol (64-17-5)                             |                                       |
|-----------------------------------------------|---------------------------------------|
| United Kingdom - Occupational Exposure Limits |                                       |
| Local name                                    | Ethanol                               |
| WEL TWA (OEL TWA) [1]                         | 1920 mg/m <sup>3</sup>                |
| WEL TWA (OEL TWA) [2]                         | 1000 ppm                              |
| Regulatory reference                          | EH40/2005 (Fourth edition, 2020). HSE |

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### isobutane (75-28-5)

#### Ireland - Occupational Exposure Limits

|                      |                                       |
|----------------------|---------------------------------------|
| Local name           | Butane, all isomers: Isobutane        |
| OEL STEL [ppm]       | 1000 ppm                              |
| Regulatory reference | Chemical Agents Code of Practice 2020 |

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

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



##### 8.2.2.1. Eye and face protection

###### Eye protection:

Safety glasses

##### 8.2.2.2. Skin protection

###### Skin and body protection:

Wear suitable protective clothing

###### Hand protection:

Protective gloves

##### 8.2.2.3. Respiratory protection

###### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

##### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

##### Environmental exposure controls:

Avoid release to the environment.

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### SECTION 9: Physical and chemical properties

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

|                                                 |                                               |
|-------------------------------------------------|-----------------------------------------------|
| Physical state                                  | : Liquid                                      |
| Appearance                                      | : Aerosol.                                    |
| Colour                                          | : white.                                      |
| Odour                                           | : Fruity.                                     |
| Odour threshold                                 | : No data available                           |
| pH                                              | : 9                                           |
| pH solution                                     | : 100 %                                       |
| Relative evaporation rate (butylacetate=1)      | : No data available                           |
| Melting point                                   | : Not applicable                              |
| Freezing point                                  | : No data available                           |
| Boiling point                                   | : > -44,5 °C                                  |
| Flash point                                     | : -60 °C                                      |
| Auto-ignition temperature                       | : 365 °C                                      |
| Decomposition temperature                       | : No data available                           |
| Flammability (solid, gas)                       | : Extremely flammable aerosol.                |
| Vapour pressure                                 | : 4000 hPa (20°C)                             |
| Relative vapour density at 20 °C                | : No data available                           |
| Relative density                                | : No data available                           |
| Density                                         | : 0,912 kg/l at 20 °C                         |
| Solubility                                      | : Water: Insoluble / Slightly miscible        |
| Partition coefficient n-octanol/water (Log Pow) | : No data available                           |
| Viscosity, kinematic                            | : No data available                           |
| Viscosity, dynamic                              | : No data available                           |
| Explosive properties                            | : Pressurised container: May burst if heated. |
| Oxidising properties                            | : No data available                           |
| Lower explosive limit (LEL)                     | : 1,5 vol %                                   |
| Upper explosive limit (UEL)                     | : 12 vol %                                    |

#### 9.2. Other information

|             |           |
|-------------|-----------|
| VOC content | : 204 g/l |
|-------------|-----------|

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Reacts violently with (strong) oxidizers.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

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

| propan-2-ol (67-63-0)       |                                         |
|-----------------------------|-----------------------------------------|
| LD50 oral rat               | 5840 mg/kg (OECD 401 method)            |
| LD50 dermal rabbit          | 16,4 ml/kg (OECD 402 method)            |
| LC50 Inhalation - Rat [ppm] | > 10000 ppm (ppm/6h, vapour) [OECD 403] |

| Ammonia (1336-21-6)               |                      |
|-----------------------------------|----------------------|
| LD50 oral                         | 350 mg/kg bodyweight |
| LC50 Inhalation - Rat (Dust/Mist) | 3310 mg/l            |

| Ethanol (64-17-5)                 |                                                                                                                                    |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat                     | 15010 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 14450 - 15560 |
| LD50 oral                         | 8300 mg/kg bodyweight Animal: mouse                                                                                                |
| LD50 dermal                       | 15800 mg/kg bodyweight                                                                                                             |
| LC50 Inhalation - Rat (Dust/Mist) | > 99999 mg/l                                                                                                                       |

Skin corrosion/irritation : Not classified  
pH: 9  
Serious eye damage/irritation : Causes serious eye irritation.  
pH: 9  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
STOT-single exposure : Not classified

| propan-2-ol (67-63-0) |                                    |
|-----------------------|------------------------------------|
| STOT-single exposure  | May cause drowsiness or dizziness. |

| Ammonia (1336-21-6)  |                                   |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |

STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified

| Putoline Helmet Sanitizer |         |
|---------------------------|---------|
| Vaporizer                 | aerosol |

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### SECTION 12: Ecological information

#### 12.1. Toxicity

|                                                           |                                                                                                                         |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Ecology - general                                         | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified                                                                                                        |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified                                                                                                        |

#### propan-2-ol (67-63-0)

|                                    |                                                 |
|------------------------------------|-------------------------------------------------|
| LC50 - Fish [1]                    | 9640 mg/l (Pimephales promelas, 96h) [OECD 203] |
| LC50 - Other aquatic organisms [1] | > 10000 mg/l (Daphnia magna, 24h) [OECD 202]    |

#### Ammonia (1336-21-6)

|                                    |                                      |
|------------------------------------|--------------------------------------|
| LC50 - Fish [1]                    | 0,89 mg/l 96h (Oncorhynchus mykiss)  |
| EC50 - Crustacea [1]               | 101 mg/l 48h (Daphnia magna)         |
| EC50 - Other aquatic organisms [1] | 101 mg/l waterflea                   |
| ErC50 algae                        | 2700 mg/l 18d (Chlorella vulgaris)   |
| LOEC (chronic)                     | 0,022 mg/l 73d (Oncorhynchus mykiss) |
| NOEC chronic crustacea             | 0,79 mg/l 96h (Daphnia magna)        |

#### Ethanol (64-17-5)

|                                    |                                                                  |
|------------------------------------|------------------------------------------------------------------|
| LC50 - Fish [1]                    | 14,2 g/l Test organisms (species): Pimephales promelas           |
| EC50 - Other aquatic organisms [1] | 5012 mg/l waterflea                                              |
| EC50 - Other aquatic organisms [2] | 275 mg/l                                                         |
| NOEC (chronic)                     | 9,6 mg/l Test organisms (species): Daphnia magna Duration: '9 d' |

#### 12.2. Persistence and degradability

##### Putoline Helmet Sanitizer

|                               |                |
|-------------------------------|----------------|
| Persistence and degradability | Biodegradable. |
|-------------------------------|----------------|

#### propan-2-ol (67-63-0)

|                |           |
|----------------|-----------|
| Biodegradation | 53 % (5d) |
|----------------|-----------|

#### 12.3. Bioaccumulative potential

#### propan-2-ol (67-63-0)

|                                                 |      |
|-------------------------------------------------|------|
| Partition coefficient n-octanol/water (Log Pow) | 0,05 |
|-------------------------------------------------|------|

#### Ammonia (1336-21-6)

|                                                 |       |
|-------------------------------------------------|-------|
| Partition coefficient n-octanol/water (Log Pow) | -2,66 |
| Partition coefficient n-octanol/water (Log Kow) | -0,64 |

#### Ethanol (64-17-5)

|                                                 |       |
|-------------------------------------------------|-------|
| Partition coefficient n-octanol/water (Log Pow) | -0,32 |
|-------------------------------------------------|-------|

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### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

#### Component

|                     |                                                                                                                                                                                 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ammonia (1336-21-6) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste treatment methods           | : Dispose of contents/container in accordance with licensed collector's sorting instructions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| European List of Waste (LoW) code | : 20 01 13* - solvents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| HP Code                           | : HP3 - "Flammable:" <ul style="list-style-type: none"><li>— flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point &gt; 55 °C and ≤ 75 °C;</li><li>— flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;</li><li>— flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;</li><li>— flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;</li><li>— water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;</li><li>— other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.</li></ul> |

## SECTION 14: Transport information

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

| ADR                                                                                 | IMDG                                                                                | IATA                                                                                | ADN                                                                                   | RID                                                                                   |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>14.1. UN number</b>                                                              |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| UN 1950                                                                             | UN 1950                                                                             | UN 1950                                                                             | UN 1950                                                                               | UN 1950                                                                               |
| <b>14.2. UN proper shipping name</b>                                                |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| AEROSOLS                                                                            | AEROSOLS                                                                            | Aerosols, flammable                                                                 | AEROSOLS                                                                              | AEROSOLS                                                                              |
| <b>Transport document description</b>                                               |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| UN 1950 AEROSOLS, 2.1, (D)                                                          | UN 1950 AEROSOLS, 2.1                                                               | UN 1950 Aerosols, flammable, 2.1                                                    | UN 1950 AEROSOLS, 2.1                                                                 | UN 1950 AEROSOLS, 2.1                                                                 |
| <b>14.3. Transport hazard class(es)</b>                                             |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| 2.1                                                                                 | 2.1                                                                                 | 2.1                                                                                 | 2.1                                                                                   | 2.1                                                                                   |
|  |  |  |  |  |
| <b>14.4. Packing group</b>                                                          |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| Not applicable                                                                      | Not applicable                                                                      | Not applicable                                                                      | Not applicable                                                                        | Not applicable                                                                        |

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### 14.5. Environmental hazards

|                                        |                                                             |                                    |                                    |                                    |
|----------------------------------------|-------------------------------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Dangerous for the environment : No     | Dangerous for the environment : No<br>Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |
| No supplementary information available |                                                             |                                    |                                    |                                    |

### 14.6. Special precautions for user

#### Overland transport

|                                                                         |                      |
|-------------------------------------------------------------------------|----------------------|
| Classification code (ADR)                                               | : 5F                 |
| Special provisions (ADR)                                                | : 190, 327, 344, 625 |
| Limited quantities (ADR)                                                | : 1I                 |
| Excepted quantities (ADR)                                               | : E0                 |
| Packing instructions (ADR)                                              | : P207               |
| Special packing provisions (ADR)                                        | : PP87, RR6, L2      |
| Mixed packing provisions (ADR)                                          | : MP9                |
| Transport category (ADR)                                                | : 2                  |
| Special provisions for carriage - Packages (ADR)                        | : V14                |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV9, CV12          |
| Special provisions for carriage - Operation (ADR)                       | : S2                 |
| Tunnel restriction code (ADR)                                           | : D                  |

#### Transport by sea

|                                   |                                    |
|-----------------------------------|------------------------------------|
| Special provisions (IMDG)         | : 63, 190, 277, 327, 344, 381, 959 |
| Packing instructions (IMDG)       | : P207, LP200                      |
| Special packing provisions (IMDG) | : PP87, L2                         |
| EmS-No. (Fire)                    | : F-D                              |
| EmS-No. (Spillage)                | : S-U                              |
| Stowage category (IMDG)           | : None                             |
| Stowage and handling (IMDG)       | : SW1, SW22                        |
| Segregation (IMDG)                | : SG69                             |

#### Air transport

|                                              |                    |
|----------------------------------------------|--------------------|
| PCA Excepted quantities (IATA)               | : E0               |
| PCA Limited quantities (IATA)                | : Y203             |
| PCA limited quantity max net quantity (IATA) | : 30kgG            |
| PCA packing instructions (IATA)              | : 203              |
| PCA max net quantity (IATA)                  | : 75kg             |
| CAO packing instructions (IATA)              | : 203              |
| CAO max net quantity (IATA)                  | : 150kg            |
| Special provisions (IATA)                    | : A145, A167, A802 |
| ERG code (IATA)                              | : 10L              |

#### Inland waterway transport

|                                   |                      |
|-----------------------------------|----------------------|
| Classification code (ADN)         | : 5F                 |
| Special provisions (ADN)          | : 190, 327, 344, 625 |
| Limited quantities (ADN)          | : 1 L                |
| Excepted quantities (ADN)         | : E0                 |
| Equipment required (ADN)          | : PP, EX, A          |
| Ventilation (ADN)                 | : VE01, VE04         |
| Number of blue cones/lights (ADN) | : 1                  |

#### Rail transport

|                                                  |                      |
|--------------------------------------------------|----------------------|
| Classification code (RID)                        | : 5F                 |
| Special provisions (RID)                         | : 190, 327, 344, 625 |
| Limited quantities (RID)                         | : 1L                 |
| Excepted quantities (RID)                        | : E0                 |
| Packing instructions (RID)                       | : P207, LP200        |
| Special packing provisions (RID)                 | : PP87, RR6, L2      |
| Mixed packing provisions (RID)                   | : MP9                |
| Transport category (RID)                         | : 2                  |
| Special provisions for carriage – Packages (RID) | : W14                |

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Special provisions for carriage - Loading, unloading : CW9, CW12  
and handling (RID)  
Colis express (express parcels) (RID) : CE2  
Hazard identification number (RID) : 23

### 14.7. Transport in bulk according to Annex II of Marpol 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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : 204 g/l  
Child-resistant fastening : Not applicable  
Tactile warning : Not applicable

Allergenic fragrances > 0,01%:

LIMONENE  
BENZYL ALCOHOL

Detergent Regulation : Labelling of contents (648/2004/EC):

| Component              | %      |
|------------------------|--------|
| aliphatic hydrocarbons | 15-30% |
| perfumes               |        |
| LIMONENE               |        |

#### Directive 2012/18/EU (SEVESO III)

| Seveso III Part I (Categories of dangerous substances)                                                                                     | Qualifying quantity (tonnes) |            |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------|
|                                                                                                                                            | Lower-tier                   | Upper-tier |
| P3a FLAMMABLE AEROSOLS<br>'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids Category 1 | 150                          | 500        |

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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### SECTION 16: Other information

| Indication of changes: |                                        |          |          |
|------------------------|----------------------------------------|----------|----------|
| Section                | Changed item                           | Change   | Comments |
|                        | Revision date                          | Modified |          |
|                        | Supersedes                             | Modified |          |
| 1.2                    | Use of the substance/mixture           | Added    |          |
| 2.2                    | Precautionary statements (CLP)         | Modified |          |
| 3                      | Composition/information on ingredients | Modified |          |
| 5.2                    | Fire hazard                            | Modified |          |
| 7.2                    | Storage temperature                    | Added    |          |
| 9.1                    | pH                                     | Added    |          |
| 9.1                    | pH solution                            | Added    |          |
| 9.1                    | Auto-ignition temperature              | Modified |          |
| 9.2                    | VOC content                            | Modified |          |
| 10.3                   | Possibility of hazardous reactions     | Modified |          |
| 15.1                   | VOC content                            | Modified |          |
| 16                     | Abbreviations and acronyms             | Modified |          |

| Abbreviations and acronyms: |                                                                                                 |
|-----------------------------|-------------------------------------------------------------------------------------------------|
| BCF                         | Bioconcentration factor                                                                         |
| IARC                        | International Agency for Research on Cancer                                                     |
| OECD                        | Organisation for Economic Co-operation and Development                                          |
| STP                         | Sewage treatment plant                                                                          |
| TLM                         | Median Tolerance Limit                                                                          |
| 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                                                                         |
| 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                                                                               |
| IATA                        | International Air Transport Association                                                         |
| IMDG                        | International Maritime Dangerous Goods                                                          |
| LC50                        | Median lethal concentration                                                                     |
| LD50                        | Median lethal dose                                                                              |

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|         |                                                                              |
|---------|------------------------------------------------------------------------------|
| LOAEL   | Lowest Observed Adverse Effect Level                                         |
| NOAEC   | No-Observed Adverse Effect Concentration                                     |
| NOAEL   | No-Observed Adverse Effect Level                                             |
| NOEC    | No-Observed Effect Concentration                                             |
| 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                                                            |
| ThOD    | Theoretical oxygen demand (ThOD)                                             |
| VOC     | Volatile Organic Compounds                                                   |
| CAS-No. | Chemical Abstract Service number                                             |
| N.O.S.  | Not Otherwise Specified                                                      |
| vPvB    | Very Persistent and Very Bioaccumulative                                     |
| ED      | Endocrine disrupting properties                                              |

| Full text of H- and EUH-statements: |                                                                                            |
|-------------------------------------|--------------------------------------------------------------------------------------------|
| Aquatic Acute 1                     | Hazardous to the aquatic environment — Acute Hazard, Category 1                            |
| Aquatic Chronic 2                   | Hazardous to the aquatic environment — Chronic Hazard, Category 2                          |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                                              |
| Flam. Gas 1A                        | Flammable gases, Category 1A                                                               |
| Flam. Liq. 2                        | Flammable liquids, Category 2                                                              |
| Press. Gas (Comp.)                  | Gases under pressure : Compressed gas                                                      |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1, Sub-Category 1B                                     |
| STOT SE 3                           | Specific target organ toxicity — Single exposure, Category 3, Narcosis                     |
| STOT SE 3                           | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H220                                | Extremely flammable gas.                                                                   |
| H222                                | Extremely flammable aerosol.                                                               |
| H225                                | Highly flammable liquid and vapour.                                                        |
| H229                                | Pressurised container: May burst if heated.                                                |
| H280                                | Contains gas under pressure; may explode if heated.                                        |
| H314                                | Causes severe skin burns and eye damage.                                                   |
| H319                                | Causes serious eye irritation.                                                             |
| H335                                | May cause respiratory irritation.                                                          |
| H336                                | May cause drowsiness or dizziness.                                                         |
| H400                                | Very toxic to aquatic life.                                                                |
| H411                                | Toxic to aquatic life with long lasting effects.                                           |

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.